Name _____ Date _____

Reflect & Review

1. A bakery sells loaves of bread for $2.35 each. On a given day, the bakery sells 210 loaves of bread. How much money do they make from the sale of the loaves of bread?

2. You count the stamps in your collection and find that you have 42 stamps from countries other than the United States. If you have 56 more stamps from the United States than from other countries, how many stamps do you have altogether?

3. Use mental math to find the difference 6400 − 1300.

4. Simplify 6 − (10 − 13).

5. Find all the prime numbers between 20 and 40.

Practice

A town has two card shops, Perfect Cards and the Card Stop. On a given day, the shops together sold a total of 355 cards. Perfect Cards sold 29 more cards than the Card Stop.

6. Draw a diagram that represents this situation.

7. How many cards did each shop sell?

8. Let p represent the number of cards sold by Perfect Cards and let c represent the number of cards sold by the Card Stop. Use the variables to write an equation that represents the total number of cards sold.

On your bookshelf, you have a total of 61 books. The number of paperback books that you have is 4 more than two times the number of hardcover books that you have.

9. Draw a diagram that represents this situation.

10. How many of each kind of book do you have?

Name _____ Date _____

Reflect & Review

1. A water park sells season passes for $61.50 including tax. You want to buy 6 passes for your family. What is the total cost for 6 season passes?

2. Robin is 3 years older than Brent. Sally is 4 years younger than Brent. Robin is 12 years old. What are the ages of Brent and Sally?

3. Simplify $8 \times 9 - 15 \div 3 + 8 - 32$.

4. Find the product of 6 and -9.

5. Use mental math to find the difference $1450 - 725$.

Practice

6. A copy machine makes 35 copies per minute. Let m represent the number of minutes the copier runs. Write an expression that represents the total number of copies made.

7. Kate can make a dozen cookies out of one ready-bake cookie roll. Let r represent each ready-bake cookie roll. Write an expression that represents the total number of cookies she can make.

8. Fifteen baseballs can fit into one display case. Let c represent the number of display cases. Write an expression that represents the total number of baseballs in display cases.

9. Kendal earns $15 each night he works at a Mexican restaurant and $5 per hour in tips. Let h represent the number of hours he works. Write an expression that represents the total amount of earnings.

Evaluate each expression for the given values.

10. $-2y$ when $y = 0$, 6, and -3

11. $-8x + 7$ when $x = -1$, 2, and 5

12. $5.2r + 1.2$ when $r = -4$, 0, and 1.5

13. $\frac{1}{2}t + \frac{3}{4}$ when $t = -8$, $\frac{1}{2}$, and $\frac{2}{3}$

Name _____ Date _____

Reflect & Review

1. Find the perimeter of a square with a side length of $3\frac{1}{8}$ centimeters.

2. A local real estate agent earns 3% of the sale price of a house. If a house sells for $150,000, how much would he earn?

3. Evaluate $5 - 8t$ when $t = -2$ and 5.

4. Find the product $\frac{5}{6} \times \frac{15}{8} \times \frac{24}{25}$.

5. True or False: The product of two odd integers is an even integer. Justify your answer.

Practice

Solve each equation. Show all your work.

6. $4x = 24$

7. $r + 7 = 8$

8. $12x = 36$

9. $m - 34 = 58$

10. $\frac{2}{3}b = \frac{4}{9}$

11. $1.6g = 2.4$

12. $5.2t = -1.3$

13. $\frac{3}{5}b = \frac{18}{25}$

14. $87 + p = 167$

Name _____ Date _____

Reflect & Review

1. Belinda works at Pizza Galore where she earns $6 per hour. She wants to buy a CD player for her car that costs $358. How many hours does she need to work to earn enough money to buy the CD player?

2. Pablo wants to arrange his coin collection in a shadow box. He has 64 coins and wants the arrangement to be rectangular. Describe the ways in which Pablo can arrange his coins.

3. Solve the proportion $\frac{5}{8} = \frac{x}{24}$.

4. Use mental math to find the product of 3200 and 40.

5. Find the quotient 453.2 ÷ 0.04.

Practice

Solve each equation. Show all your work.

6. $4t - 8 = 12$

7. $5 - 3v = -10$

8. $9 = 6y + 21$

9. $-50t + 10 = 35$

10. $17 = 9c - 19$

11. $4r + 22 = -102$

12. $-\frac{1}{3}t + \frac{2}{9} = \frac{7}{9}$

13. $2 = \frac{3}{2}p - 10$

14. $145 - 18n = -125$

Name _____ Date _____

Reflect & Review

1. Barbara works for a car dealership near her house. She earns 15% commission on all sales. If she sells four cars totaling $62,540, what are her total earnings in commission?

2. A rectangular pool measures 20 feet by 12 feet. What is the area of the pool?

3. Simplify $\frac{2}{5} + \frac{3}{2} - \frac{13}{10}$.

4. Write $6\frac{4}{5}$ as a decimal.

5. Find all of the prime numbers between 50 and 60.

Practice

Plot each point in the coordinate plane at the right.

6. $A(4, 3)$

7. $B(2.5, 7)$

8. $C(0, 4)$

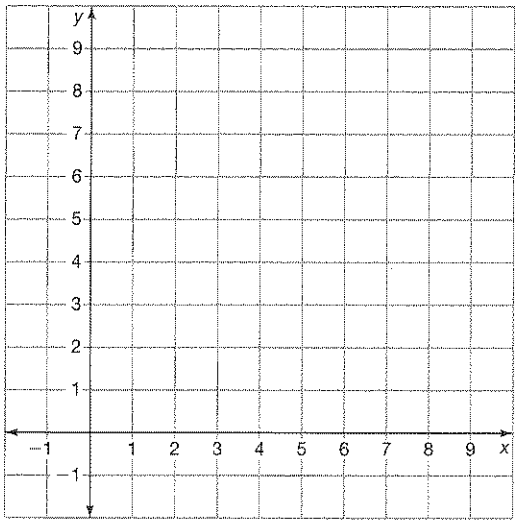
9. $D(9, 0)$

10. $E\left(2\frac{3}{4}, 5\frac{1}{2}\right)$

11. $F(1, 7)$

12. $G(7, 2)$

13. $H(3, 5.5)$



Name _____ Date _____

Reflect & Review

1. Jade has 42 candy bars left to sell for a fundraiser. The candy bars are $1.50 each. She has $165 to turn in for candy bars sold. After she sells the rest of the candy bars, how much money will she turn in?

2. There are sixteen songs on a CD. Each song is about 4 minutes and 30 seconds long. How long will it take to listen to the entire CD?

3. Find the quotient 2.19 ÷ 0.6.

4. Convert 23,760 feet to miles.

Practice

Complete each table.

5.

x	$5x + 1$
1	
2	
3	
4	

6.

x	$3x + 4$
0	
1	
2	
3	

7.

x	$6x + 2$
−3	
0	
1	
5	

8.

x	$2x + 7$
−4	
−1	
2	
3	

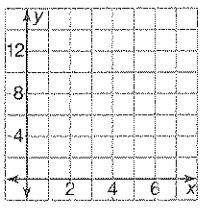
9.

x	$6x + 1$
−2	
−1	
0	
1	

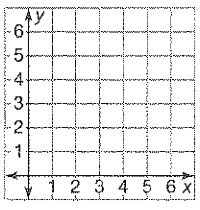
10.

x	$0.5x + 2$
0	
2	
4	
6	

11. Create a graph from the table in Question 6.



12. Create a graph from the table in Question 10.



Name _____ Date _____

Reflect & Review

1. There are a total of thirty-six computers in two computer labs. How many computers would you expect there to be in 6 computer labs?

2. Find the perimeter and area of a rectangle that has a length of 5 feet and a width of $8\frac{3}{5}$ feet.

3. Use mental math to find the sum 4000 + 250 + 40 + 9.

4. Find the LCM of 5 and 6.

5. Simplify $\frac{128}{400}$.

Practice

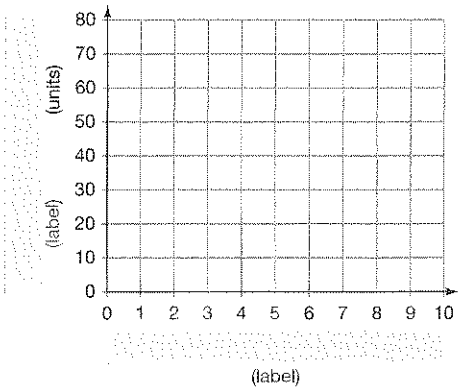
Troy, Meg, and Sam are playing miniature golf. The average time it takes to play one hole is 7 minutes.

6. Write an expression that you can use to represent the total amount of time it takes to play miniature golf in terms of the number of holes that are played. Define the variable that you use.

7. Use the expression that you wrote in Question 6 to complete the table of values below.

Number of Holes	Total Time (minutes)
7	
3	
	63
2	
	28

8. Create a graph from the table of values in Question 7.



Name _____ Date _____

Reflect & Review

1. You and five friends go to the movie theater. The theater gives a 10% discount on a ticket with a student ID. A ticket for the matinee costs $6. If you and your friends all have student IDs, what is the total cost for all of you to go to the matinee?

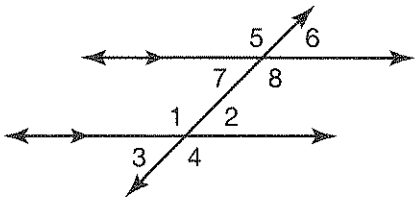
2. Decide where to place the parentheses so that the answer is correct using the order of operations. $4 \times 8 + 15 - 8 \div 3 = 20$

3. Write $15\frac{4}{9}$ as a mixed number.

4. Write the prime factorization of 24.

Practice

Use the diagram at the right to answer each question.



5. Name all of the pairs of vertical angles.

6. Name all of the pairs of alternate interior angles.

7. Name all of the pairs of supplementary angles.

8. Name all of the pairs of corresponding angles.

9. If $m\angle 2 = 35°$, find $m\angle 4$, $m\angle 8$, $m\angle 3$, and $m\angle 7$.

10. If $m\angle 1 = 115°$, find $m\angle 2$, $m\angle 5$, and $m\angle 6$.

Skills Practice

Name _____ Date _____

Reflect & Review

1. Juliana is buying hot dogs and buns for a cookout. Hot dogs are sold in packages of ten and buns are sold in packages of eight. How many packages of hot dogs and buns should she buy so that she doesn't have any hot dogs or buns left over?

2. Herb has $40. He buys 4 pounds of grapes for $2.45 per pound. How much money does he have left?

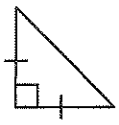
3. Use mental math to find the sum of 6522 and 471.

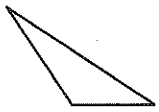
4. Find the product of 1.45 and 32.8.

Practice

Classify each triangle by its sides and angles.

5. 

6. 

7. 

Draw a triangle with the given characteristics. If it is not possible, explain why.

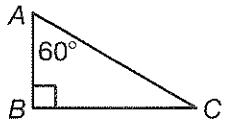
8. An isosceles right triangle

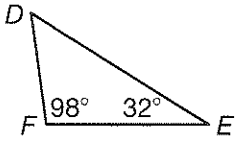
9. A scalene acute triangle

10. An obtuse equilateral triangle

11. An obtuse scalene triangle

Find the missing angle measure.

12. 

13. 

Name _____ Date _____

Reflect & Review

1. Chris is assigning starting times to 20 golfers. First he puts them into groups of four. Now he needs to tell each group what time to start. The first group will begin at 7:30 A.M. There are 15 minutes between each group's start time. How many groups are there? At what time does the last group start?

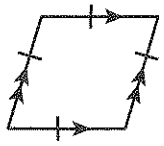
2. The photo gallery wants to print a flyer to advertise its portrait studio. Mr. Gray wants to place 8 pictures on the page in rows so that each row has the same number of pictures. He is able to shrink and enlarge the pictures to fit on the flyer. What are the different arrangements for the pictures?

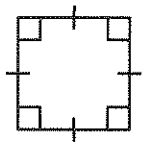
3. List the next four prime numbers after 37.

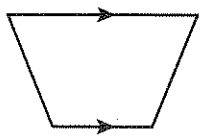
4. Find the sum of $3\frac{5}{8}$ and $2\frac{1}{3}$.

Practice

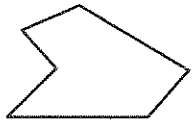
Write as many names as you can for each quadrilateral.

5. 

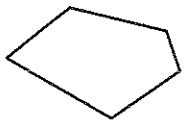
6. 

7. 

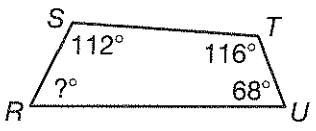
Classify the polygon by its sides.

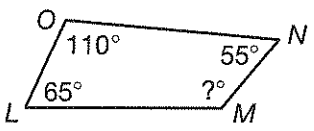
8. 

9. 

10. 

Find the measure of the missing angle of each polygon.

11. 

12. 

Name _____ Date _____

Reflect & Review

1. You are building a raised rectangular garden bed that is 6 feet long and 3 feet wide. What is the perimeter of the raised garden bed?

2. Your friend is making pillows to earn money this summer. One yard of material costs \$1.34. She uses $3\frac{1}{2}$ yards to make each pillow. How much does the material for one pillow cost? She sells the pillows for \$10 each. How much does she make on each pillow after subtracting the cost of material?

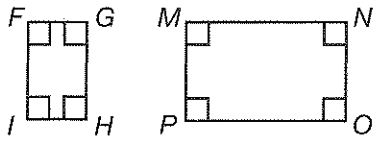
3. Find the quotient $0.25 \div 5$.

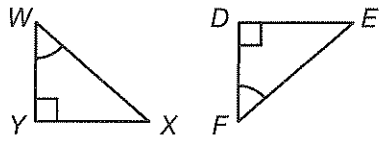
4. Simplify $\frac{4}{7} \times \frac{9}{8} \div \frac{18}{35}$.

9

Practice

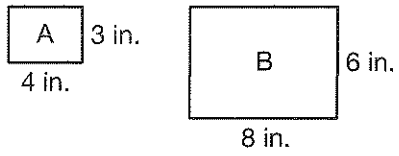
The figures shown are similar. Name the corresponding angles and corresponding sides of each pair of figures.

5. 

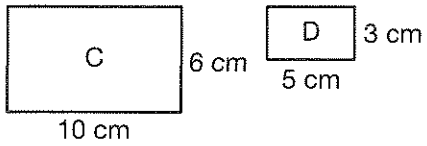
6. 

Find the scale factor used to produce the new figure.

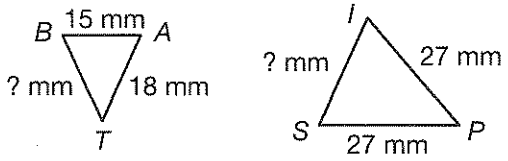
7. Rectangle *A* is enlarged to make rectangle *B*.



8. Rectangle *C* is reduced to make rectangle *D*.



9. Triangle *BAT* is similar to triangle *SIP*. Find the missing side lengths.

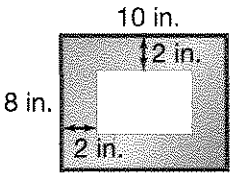


Name _____ Date _____

Reflect & Review

1. You are responsible for restocking the paper cups in the concession stand at the football field. At Discount Paper, 500 cups cost $220, and at Paper Supply, 275 cups cost $115.50. Which store has better pricing for cups? Justify your answer.

2. An 8-inch by 10-inch rectangular picture frame is shown at the right. A 2-inch mat has been placed inside the frame. Find the area of the mat.



3. Find the product of 5.78 and 0.2.

4. Find the greatest common factor of 36 and 48.

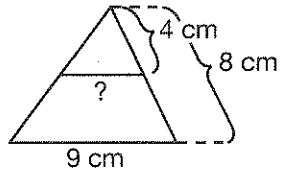
5. Find the sum 7.03 + 9 + 11.28.

9

Practice

Use a proportion and similar triangles to find the missing measure. Show all your work.

6.



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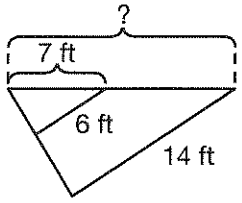

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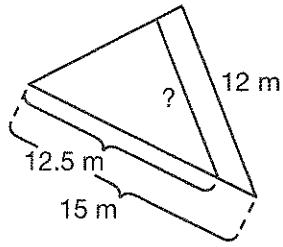

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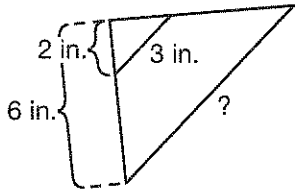


Skills Practice

Lesson 9.6

Name _____ Date _____

Reflect & Review

1. Two fifths of the senior class voted for Spirit Week to be held in October. One fifth of the senior class voted for it to be held in September. If there are 455 students in the senior class, how many students did not vote for Spirit Week to be held in September or October?

2. Jake traveled 469 miles to his grandmother's house. He drove at an average speed of 67 miles per hour. How many hours did he drive?

3. Find the difference $\frac{3}{4} - \frac{8}{11}$.

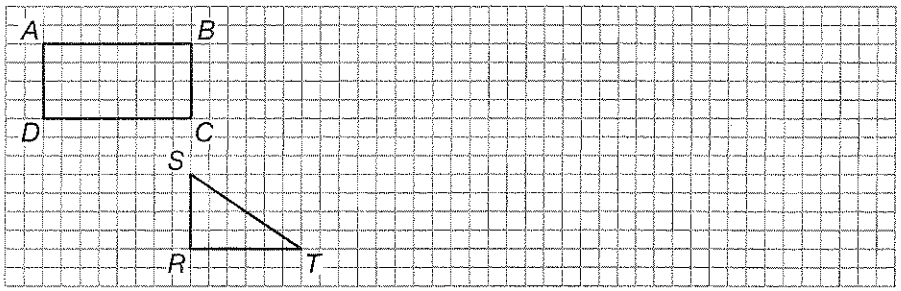
4. Solve the proportion $\frac{21}{15} = \frac{x}{5}$.

5. Write $\frac{78}{5}$ as a mixed number.

Practice

Sketch each figure on the grid below.

6. A rectangle that is similar to rectangle *ABCD* with a scale factor of 3
7. A rectangle that is congruent to rectangle *ABCD*
8. A rectangle that is similar to rectangle *ABCD* with scale factor of 0.25
9. A triangle that is congruent to triangle *STR*
10. A triangle that is similar to triangle *STR* with scale factor of 2
11. A triangle that is similar to triangle *STR* with scale factor of 0.5



Name _____ Date _____

Reflect & Review

1. Josh's first plane leaves the airport at 8 A.M. The flight lasts 2 hours. He has to wait 2 hours before leaving on a second plane that will get him to his destination. This flight lasts 3 hours. What time does he arrive at his destination?

2. Deana has a bottle of 300 vitamins. If she takes one vitamin a day, about how many weeks will the vitamins last?

3. Find the area of a rectangle with a length of 4.5 meters and a width of 2.7 meters.

4. Simplify $\frac{32}{8} \times \frac{6}{24} \div \frac{27}{18}$.

5. List all of the prime numbers between 50 and 60.

Practice

Complete the table to find the possible lengths and widths of rectangles with the given area. Then find the perimeters of these rectangles.

6. Area: 18 square units

Length	Width	Perimeter

7. Area: 24 square units

Length	Width	Perimeter

8. Area: 12 square units

Length	Width	Perimeter

9. Area: 42 square units

Length	Width	Perimeter

Complete the table to find the possible lengths and widths of rectangles with the given perimeter. Then find the areas of these rectangles.

10. Perimeter: 18 units

Length	Width	Area

11. Perimeter: 10 units

Length	Width	Area

Name _____ Date _____

Reflect & Review

1. Helen can transfer 24 pictures from a memory card to a CD in 2 minutes. At this rate, how many pictures can she transfer in one hour? Justify your answer.

2. Your teacher has decided to make a memory quilt for your class. Each student will design one square. There are 32 students in your class. What are the different ways that the squares can be arranged in rows and columns? Which dimensions will your teacher be most likely to use and why?

3. Solve the equation $3x + 8 = -16$.

4. Write the prime factorization of 48.

5. Order the numbers 2.3, -1.5, $\frac{9}{4}$, 2.8, -2, $-\frac{7}{3}$, 1, and -1 from least to greatest.

10

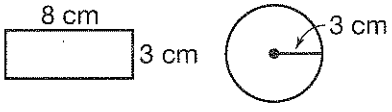
Practice

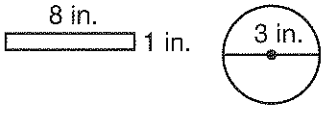
Find the missing information for each circle. Write your answer in terms of π when necessary.

6. Radius: 4 in.
   Diameter:
   Circumference:
   Area:

7. Radius:
   Diameter: 10 m
   Circumference:
   Area:

Determine which figure has the greater area. Justify your answer.

8. 

9. 

Name _____ Date _____

Reflect & Review

1. You are attending a conference for your company. The round trip is 328 miles and your company will pay you $0.42 per mile for using your own car. How much will you be paid for the round trip?

2. Find the maximum area of a rectangle that has a perimeter of 16 feet.

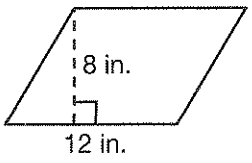
3. Use mental math to find the sum of 93 and 48.

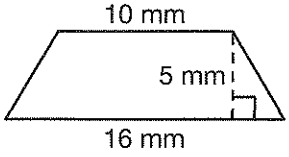
4. Find the greatest common factor of 8 and 12.

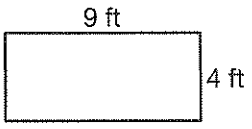
5. Find the quotient 136.92 ÷ 2.1.

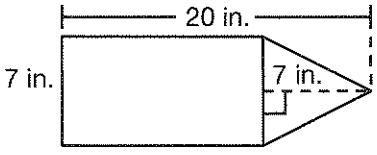
Practice

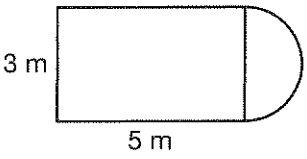
Find the area of each figure.

6. 

7. 

8. 

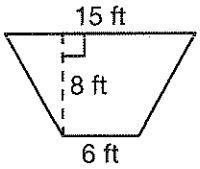
9. 

10. 

Name _____ Date _____

Reflect & Review

1. A patio is built in the shape of a trapezoid, as shown. Find the area of the patio.



2. What is the area of the top of a 14-inch by 14-inch pizza box?

3. Simplify $\frac{264}{312}$.

4. Fifty-four is what percent of 86? Round your answer to the nearest tenth.

5. Write the ordered pair whose point is 6 units to the right of the *y*-axis and 2 units above the *x*-axis.

10

Practice

Write the square root of each perfect square.

6. $\sqrt{81}$ 7. $\sqrt{225}$ 8. $\sqrt{64}$

Complete each statement with two integers so that the squares of the integers are the closest perfect squares to the number.

9. $\_\_\_^2 < 19 < \_\_\_^2$ 10. $\_\_\_^2 < 93 < \_\_\_^2$ 11. $\_\_\_^2 < 40 < \_\_\_^2$

Estimate the square root to the nearest tenth.

12. $\sqrt{14}$ 13. $\sqrt{56}$ 14. $\sqrt{19}$

15. $\sqrt{35}$ 16. $\sqrt{102}$ 17. $\sqrt{73}$

Name _____ Date _____

Reflect & Review

1. Josh wants to put a fence around his rectangular basketball court. The court is 51.5 feet long and 38.75 feet wide. How many feet of fencing will Josh need?

2. If the fencing Josh chose in Question 1 costs $5.38 per foot, how much would it cost to fence in the basketball court?

3. Use mental math to subtract 240 from 941.

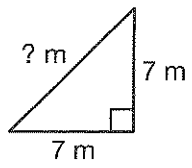
4. Simplify $\frac{54}{36} \times \frac{72}{66}$.

5. Matt played 72 baseball games last summer. His team won 58 games. What percent of the games did they win? Round your answer to the nearest percent.

Practice

Use the Pythagorean theorem to find the missing side length.

6.



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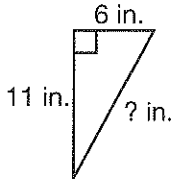

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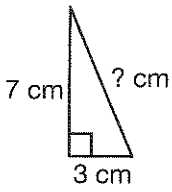
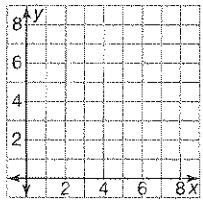
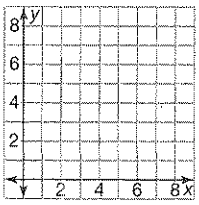


Plot and connect the points in a coordinate plane and use the Pythagorean theorem to find the length of the hypotenuse.

9. $A(0, 1)$, $B(0, 7)$, $C(8, 1)$



10. $E(1, 4)$, $F(1, 0)$, $G(8, 4)$



Name _____ Date _____

Reflect & Review

1. Paul and Moriah are trying to find the shortest route to their favorite restaurant. They have narrowed their search to two routes which form a right triangle. The legs of the triangle are 8 miles and 10 miles. Would it be a shorter distance traveling the legs of the triangle or the hypotenuse? Justify your answer.

2. Elise purchased her house for $75,000. Today it is worth $138,000. Find the percent increase in the value of her house.

3. Simplify $18 - 33 \times 2 + 48 \div 6 + 20$.

4. Evaluate $6r^2 - 9r + 7$ when $r = -2$.

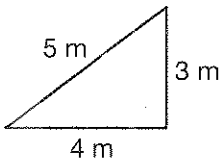
5. Solve the equation $4x - 10 = 22$.

Practice

10

Determine whether the triangle is a right triangle.

6.



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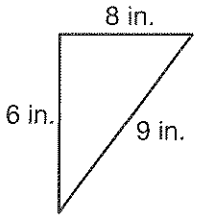

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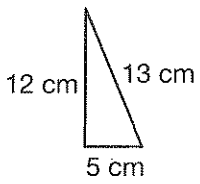


9. Eric is designing a geometric statue for an arts festival. The base of the statue is a right triangle. If the lengths of the legs of the base are 13 inches and 84 inches, how long is the hypotenuse of the base?

Name _____ Date _____

Reflect & Review

1. Kelly has hand-written a biology report that is 2000 words long. She can type 47 words per minute. About how long will it take her to type the report? Round your answer to the nearest minute.

2. Solve the equation $18 = 14 - \frac{1}{6}x$.

3. Simplify the expression $\frac{6 + 8}{20}$.

4. You have completed 24 of 50 homework problems. Write the ratio that represents the portion of problems that you have completed.

Practice

There are 12 socks in a drawer. Four of the socks are white, 6 socks are blue, and 2 socks are black. You randomly select a sock from the drawer.

5. What is the probability that you will select a white sock?

6. What is the probability that you will select a blue sock?

7. What is the probability that you will select a black sock?

8. What is the probability that you will select a sock that is not blue?

9. What is the probability that you will select a sock that is not white?

10. What is the probability that you will select a sock that is not black?

John has 7 dimes, 9 quarters, and 3 nickels in his pocket.

11. What is the probability that he will randomly pull a quarter out of his pocket?

12. What is the probability that he will randomly pull a dime out of his pocket?

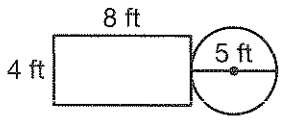
13. What is the probability that he will randomly pull a nickel out of his pocket?

Name _____ Date _____

Reflect & Review

1. You are burning 12 songs to a CD for your friend. You want to type the names of the songs on a piece of paper and put it in the CD case. You want to arrange the names in rows and columns so that all of the rows have the same number of songs and all of the columns have the same number of songs. How many different arrangements are possible? (Space is not a problem because you can always choose a smaller font.)

2. Find the area of the garden shown at the right. Round your answer to the nearest foot.



3. Sally works 5.75 hours every Monday, Tuesday, and Thursday. On Saturdays, she works 7.5 hours. She earns $6.75 per hour. How much will she make in one week?

4. Use mental math to find the product of 300 and 120.

5. Write the next three prime numbers after 71.

Practice

You have 8 blue marbles, 9 red marbles, and 3 green marbles in a bag. You reach into the bag without looking and pull out a marble.

6. Suppose that you pull out a green marble, put it back, and pull out another marble. What is the probability that the second marble is red?

7. Suppose that you pull out a blue marble, put it back, and pull out another marble. What is the probability that the second marble is blue?

8. Suppose that you pull out a red marble, do not put it back, and pull out another marble. What is the probability that the second marble is blue?

9. Suppose that you pull out a green marble, do not put it back, and pull out another marble. What is the probability that the second marble is green?

10. What is the probability of pulling two red marbles from the bag if you pull out one red marble, put it back into the bag, and then pull out a second red marble?

Name _____ Date _____

Reflect & Review

1. You have $200 saved and you are spending it at a rate of $5 per week. Write an algebraic expression that represents this situation.

2. You buy a bag of 12 guitar picks for $2.04. How much does one pick cost?

3. Simplify $\frac{4}{3} + \frac{7}{6} - \frac{9}{4}$.

4. Find the sum 327.8 + 42.03 + 87.

5. Evaluate $7x + 5$ when $x = -3$.

Practice

Find the mean, median, mode, and range of the set of data. Round your answers to the nearest hundredth when necessary.

6. 14, 19, 8, 22, 11, 19, 4, 18, 12, 10, 21

7. 55, 24, 73, 108, 39, 46, 72, 100, 92, 32

Name _____ Date _____

Reflect & Review

1. Nelly found a house that she would like to buy. Her down payment for the house must be 20% of the sale price. If the price of the house is $240,000, what will her down payment be?

2. Chloe is taking round beads out of a jar. She knows that there are 15 purple beads, 18 gray beads, and 22 black beads. Without looking at the color of the bead that she is choosing, what is the probability that she will choose a purple bead?

3. Simplify $(18 - 15 \times 3) - 2(5 + 4)$.

4. Find the product of 6.2 and 0.4.

5. Solve the proportion $\frac{6}{25} = \frac{18}{x}$.

Practice

6. Construct a histogram of the data in the frequency table.

Data Intervals	0.0–0.9	1.0–1.9	2.0–2.9	3.0–3.9
Tally	𝍸	III	I	𝍸 II
Frequency	5	3	1	7

7. Construct a frequency table and a histogram of the data.

22, 4, 20, 11, 31, 5, 27, 7, 19, 3, 1, 15, 29, 9, 22, 35, 12, 0, 2, 25, 38

Data Intervals				
Tally				
Frequency				

Name _____ Date _____

Reflect & Review

1. Ritchie challenges Sheila to a basketball contest. Ritchie claims he can make 19 out of 25 three-pointers and Sheila claims she makes a basket 81% of the time from the three-point line. Who do you think will make more baskets out of 100 three-pointers based on the information given? Justify your answer.

2. Your cell phone provider charges you $0.13 per minute for calls when you have used more than 1400 minutes. You are also charged a monthly fee of $29.95. Last month you used 2278 minutes. How much was last month's phone bill?

3. Simplify $58 - (-345) - 721 + 32$.

4. At graduation, two thirds of the class wore sandals. There were 27 students in the class. How many students did not wear sandals?

Practice

Use the stem-and-leaf plot to identify the mean, median, and mode(s) of the data.

5.
1	9
2	1 2 5 8
3	0 1 2 6
4	5

1 | 0 = 10

6.
5	3 3 4
6	0 4 8 8
7	1 1 2 6
8	0 1

1 | 0 = 1.0

Make a stem-and-leaf plot of the data.

7. 0, 4, 6, 7, 7, 10, 11, 14, 16, 19, 21, 28, 42, 43, 43, 46, 46, 49, 52, 54, 57, 61

8. 3.7, 3.8, 3.9, 4.0, 4.6, 4.9, 5.0, 5.1, 5.4, 5.8, 6.2, 6.4, 6.6, 7.1, 7.5, 7.7, 7.8, 8.5, 8.5, 9.8

Name _____ Date _____

Reflect & Review

1. Yolanda made golf putts from distances of 7 feet, 15 feet, 8 feet, 9.5 feet, and 11 feet from the hole. Of the putts she made, what is the average distance from the hole?

2. When contractors lay tile in a house, they order 10% extra tiles to account for breakage. A job requires 150 tiles. How many tiles should the contractor order?

3. What is 15% of 75?

4. Find the product of 0.81 and 3.54.

Practice

Find the median, upper quartile, and lower quartile of the data.

5. 5, 18, 15, 8, 12, 10, 8, 4, 1, 10, 11, 3, 15

6. 65, 69, 52, 64, 59, 48, 44, 56, 70, 38, 40

Name _____ Date _____

Reflect & Review

1. Sandy is building a web page for a customer. She charges a flat fee of $75 and $15.95 per month for maintenance. How much would it cost the customer to pay for one year of service?

2. A basketball team makes 65% of its baskets from the field. How many attempts would it take the team to make 26 baskets?

3. Use mental math to find the product of 60 and $\frac{1}{2}$.

4. Simplify $\frac{198}{270}$.

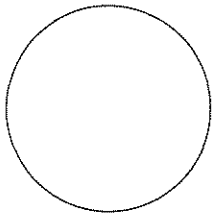
5. Simplify $37.8 + 42.01 - 16$.

Practice

A bakery manager collects information about the bakery's sales and organizes the results in the table below. Complete the table and then construct a circle graph for the table.

6.

Type of Bread	Number Sold	Percent of Total Sold
White	190	
Wheat	200	
Rye	50	
Pumpernickel	20	
Oatmeal	40	



Name _____ Date _____

Reflect & Review

1. You are on the school track team and you throw the discus. During a warm-up at a recent practice, you throw the discus distances of 8.75 feet, 9.5 feet, and 8 feet. What is the average of these distances?

2. You want to buy a guitar that costs $328. The sales tax on the guitar is 7%. How much sales tax do you have to pay if you buy the guitar?

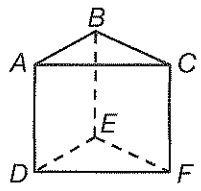
3. Simplify $5 + 24 \div 3 + 4 \times 6$.

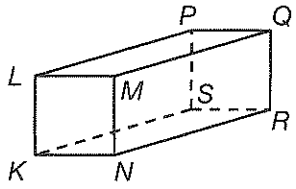
4. Find the sum of $4\frac{3}{8}$ and $5\frac{2}{3}$.

5. Use mental math to find the difference $170.5 - 65.25$.

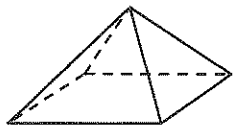
Practice

Identify the bases and the faces of each prism.

6. 

7. 

Identify each solid.

8. 

9. 

10. 

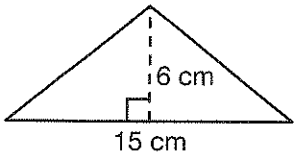
Name _____ Date _____

Reflect & Review

1. A playground is being built at the new elementary school near your school. The playground will take up a rectangular area and will be 120 feet wide and 140 feet long. What will the area of the playground be?

2. Tara works at a shoe store and makes an 8% commission on each pair of shoes that she sells. On a Saturday, she sells $380 worth of shoes. What is her commission?

3. Find the area of the triangle shown at the right.



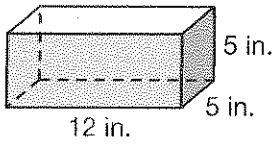
4. Find the difference $7\frac{2}{3} - 4\frac{1}{6}$.

5. Simplify $\frac{4(2) + 2(2)}{3}$.

Practice

Find the volume of the solid.

6.



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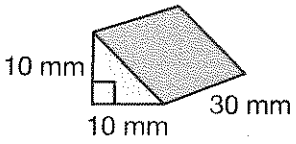
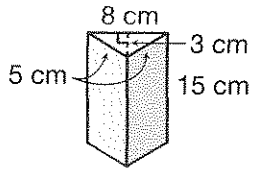


Find the surface area of the solid.

8.



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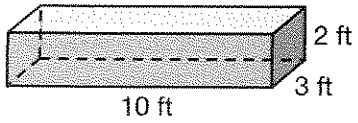


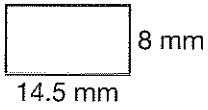
Name _____ Date _____

Reflect & Review

1. A circular mural is being painted on the wall at the entrance of your school. The finished mural will have a diameter of 8 feet. What is the area of the mural? Use 3.14 for π.

2. An office supply store sells four three-ring binders for $9.52. Another store sells five three-ring binders for $11.80. Which store sells the binders for a better price?

3. Find the area of the rectangle shown at the right.



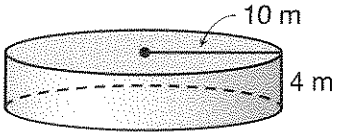
4. Simplify $2.4(7^2) + 5$.

5. Find the product of 6.4 and 1.3.

Practice

Find the volume of the cylinder. Use 3.14 for π.

6.



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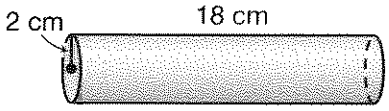
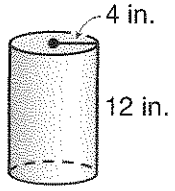


Find the surface area of the cylinder. Use 3.14 for π.

8.



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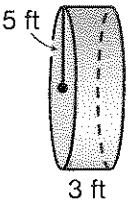


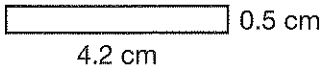
Name _____ Date _____

Reflect & Review

1. Your favorite video game is on sale for 15% off of the original price. If the video game was originally $35, how much is it now?

2. A merry-go-round has a diameter of 12 feet. What is the area of the surface of the merry-go-round?

3. Find the area of the rectangle shown at the right.



4. Simplify $6(4^2) + 3(8)$.

Practice

5. What is the volume of a square pyramid with a base length of 4 centimeters and a height of 6 centimeters?

6. What is the volume of a triangular pyramid with a base area of 100 square feet and a height of 15 feet?

7. What is the volume of a cone with a height of 15 inches and a diameter of 12 inches? Use 3.14 for π.

8. What is the volume of a cone with a height of 30 millimeters and a radius of 20 millimeters? Use 3.14 for π.

Name _____ Date _____

Reflect & Review

1. You want to bake 4 batches of cookies for a friend's birthday party. One batch of the recipe calls for $\frac{3}{4}$ cup of sugar and $1\frac{1}{2}$ cups of flour. How many cups of sugar and flour will you need to make the cookies for the party?

2. You and four of your friends are going to a music concert. One ticket to the concert costs $12.95. How much will it cost for all of you to buy tickets to the concert?

3. Simplify $\frac{2}{3}(4^2)(9)$.

4. Simplify $\frac{7(4) + 3(5)}{6 + 4}$.

5. Write $7\frac{5}{8}$ as an improper fraction.

Practice

6. What is the volume of a sphere with a diameter of 10 meters? Use 3.14 for π. Round your answer to the nearest tenth.

7. What is the volume of a hemisphere with a radius of 2.5 inches? Use 3.14 for π. Round your answer to the nearest tenth.

8. What is the surface area of a sphere with a diameter of 6 centimeters? Use 3.14 for π.

9. What is the surface area of a sphere with a radius of 8 feet? Use 3.14 for π.

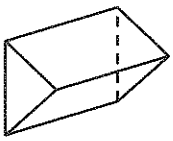
Name _____ Date _____

Reflect & Review

1. Leila and two friends are driving together to a meeting. They will split the cost of the car that they rented for the trip. The total cost of the car rental is $249.30. How much will each person pay?

2. A carpenter is measuring a room so that she can install wood molding (wood strips) where the walls meet the floors. She needs strips with lengths of $6\frac{1}{2}$ feet, $2\frac{1}{4}$ feet, 8 feet, $4\frac{3}{8}$ feet, and $5\frac{1}{2}$ feet. How much wood will she need altogether?

3. Identify the solid shown at the right.

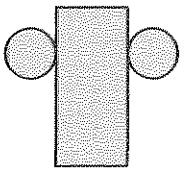


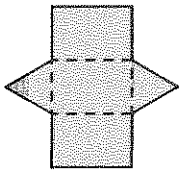
4. Find the quotient $127.5 \div 0.5$.

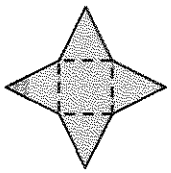
5. Simplify $4(6^2) + 5$.

Practice

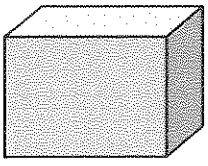
Identify the solid that is formed by the net.

6. 

7. 

8. 

9. Draw the six views (top, front, left side, right side, bottom, back) of the solid.



Name _____ Date _____

Reflect & Review

1. Three eighths of a senior class participated in a play. If there are 544 students in the senior class, how many students did not participate in the play?

2. You have read 138 pages of a 230-page book. What fraction of the book do you have left to read?

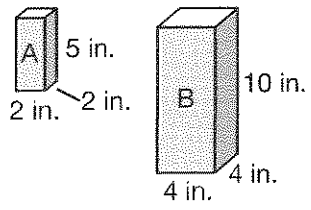
3. Find the sum of $-\frac{4}{7}$ and $2\frac{1}{2}$.

4. Solve the proportion $\frac{4}{25} = \frac{x}{40}$.

Practice

Write a ratio that compares the volume of solid A to the volume of solid B. Then write a ratio that compares the surface area of solid A to the surface area of solid B.

5.



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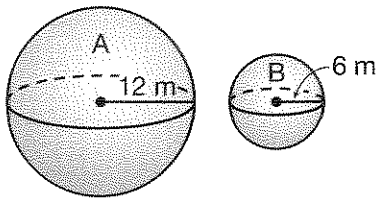

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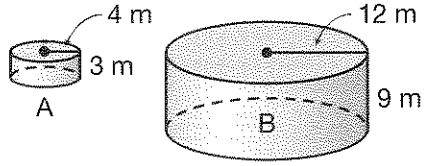


Name _____ Date _____

13

Reflect & Review

1. Victoria is covering a bulletin board with material. The board is $11\frac{1}{2}$ inches wide and 18 inches long. How much material will she need to cover the bulletin board?

2. Matt rolls two number cubes. What is the probability that both number cubes will land on a 5?

3. Find the product of 324 and 2.5.

4. Find the quotient of $\frac{3}{7} \div \frac{21}{15}$.

Practice

Decide whether the relation is a function.

5. (1, 2), (3, 4), (5, 6), (7, 8)

6. (1, 4), (2, 6), (3, 8), (1, 10), (5, 12)

For each function, identify the independent variable and the dependent variable.

7. A pizza costs $8.00 with $0.50 for each additional topping.

8. The depth of the water depends on the rate of the water flow into the pool.

9. The cost of a cell phone bill is $0.15 per minute in addition to the $25.99 monthly charge.

Find the value of each function when $x = 4$.

10. $f(x) = 8x$

11. $f(x) = 12 - x$

12. $f(x) = x + 20$

13. What are the domain and range of the function given in the table?

x	2	4	6	8	10
y	1	3	5	7	9

Name _____ Date _____

13

Reflect & Review

1. Six quiz scores from your science class are 17, 20, 23, 18, 21, and 24. Each quiz was worth 25 points. Find the mean, median, mode, and range of the quiz scores.

2. A circular inflatable swimming pool has a diameter of 40 feet. Find the area of the base of the pool. Use 3.14 for π and round your answer to the nearest square foot.

3. Use mental math to find the difference $1600 - 350$.

4. Simplify $\frac{5}{8} + \frac{2}{3} - \frac{1}{6}$.

Practice

Complete the input-output table for the linear function.

5.

x	$f(x) = 9x$
0	
1	
2	
3	

6.

x	$f(x) = x + 6$
10	
20	
30	
40	

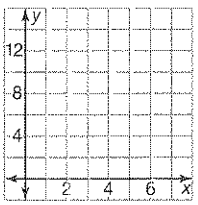
7.

x	$f(x) = 2x + 3$
0	
1	
2	
3	

Complete the table by writing each row of numbers as an ordered pair. Then plot the points in the coordinate plane and draw a straight line through the points.

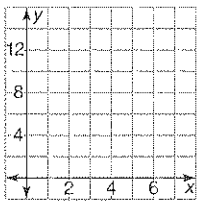
8.

x	$f(x) = 3x + 1$	Ordered Pairs
0	1	
1	4	
2	7	
3	10	



9.

x	$f(x) = 4x - 1$	Ordered Pairs
1	3	
2	7	
3	11	
4	15	



Name _____ Date _____

13

Reflect & Review

1. You are assembling pizzas for a fundraiser and you have assembled 6 pizzas so far. You can make 10 pizzas in one hour. Let h represent the number of hours you make pizzas after the first 6 pizzas. Use the variable to write an expression that represents this situation.

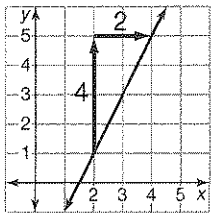
2. Your favorite book is on sale for 10% off of the regular price. If the book is regularly $65, how much is it on sale for?

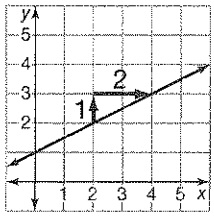
3. Simplify $\frac{180}{210}$.

4. Simplify $\frac{4 + 6}{11 - 3}$.

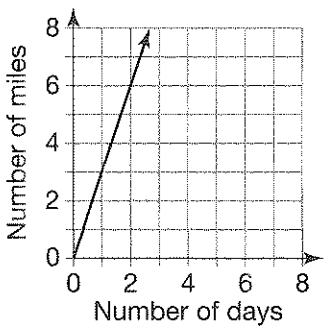
Practice

Find the slope of the line given in the graph.

5. 

6. 

7. The graph shows the number of miles you run for different numbers of days. What is the slope of the line? Include the units in your answer.



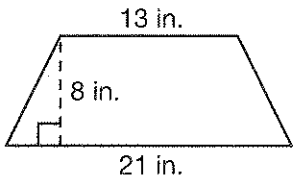
Name _____ Date _____

13

Reflect & Review

1. The real estate tax on a house is about 1% of the value of the house. If a house is appraised at $193,500, how much is the real estate tax?

2. Find the area of the trapezoid shown at the right.



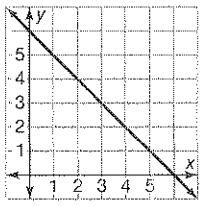
3. Use mental math to simplify 1500 − 400 + 25.

4. Solve the equation $4x + 7 = 11$.

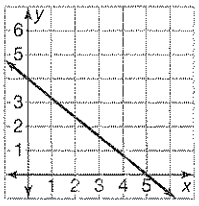
Practice

Find the slope and *x*- and *y*-intercepts of the linear function given by the graph.

5.



6.



Complete the ratio to find the slope of the line through the given points.

7. $(x_1, y_1) = (4, 5)$; $(x_2, y_2) = (7, 9)$

$$\frac{(y_2 - y_1)}{(x_2 - x_1)} = \frac{\square - \square}{\square - \square} = \frac{\square}{\square}$$

8. $(x_1, y_1) = (1, 6)$; $(x_2, y_2) = (4, 2)$

$$\frac{(y_2 - y_1)}{(x_2 - x_1)} = \frac{\square - \square}{\square - \square} = \frac{\square}{\square}$$

9. Find the slope and *x*- and *y*-intercepts of the linear function given by the table.

x	*y*
0	0
1	6
3	18
4	24

Name _____ Date _____

13

Reflect & Review

1. Each person in your history class has to give an oral report. Your teacher has written the names of all twenty students in your class on separate pieces of paper. She then places the names in a bag and chooses one randomly to determine who will give the first report. What is the probability that you will be chosen first?

2. In Question 1, what is the probability that you will be chosen second if someone else was chosen first?

3. Simplify $\frac{45}{144}$.

4. Find the product 73.1×0.06.

Practice

Identify the slope and *y*-intercept of each line.

5. $y = 4x$

6. $y = -3x + 1$

7. $y = 6x - 5$

Find the *x*- and *y*-intercepts for the graph of the equation. Show all your work.

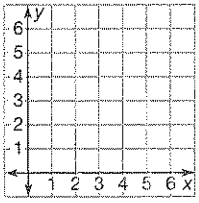
8. $y = 7x$

9. $y = -5x + 5$

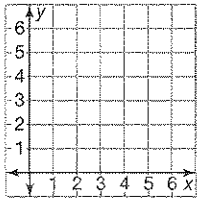
10. $y = -2x + 6$

Graph the linear equation written in slope-intercept form.

11. $y = x + 3$



12. $y = 0.5x + 1$



Name _____ Date _____

13

Reflect & Review

1. Your family drives to San Diego every summer to visit your aunt. The round trip is 1274 miles. Your car can travel 22 miles on one gallon of gasoline. How many gallons of gasoline will you use on the trip? Round your answer to the nearest whole gallon.

2. The height of a tree can grow up to 10 centimeters per year.

   a. Write an equation for the growth of the tree where x represents the number of years and h represents the tree's height.

   b. Find the height of a tree after 7 years.

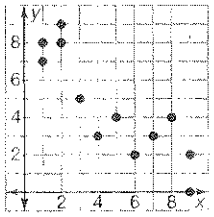
3. Evaluate $4x + 9$ when $x = -1$.

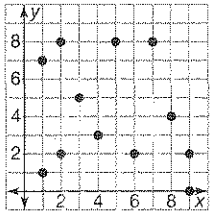
4. Find the difference $9\frac{3}{8} - 5\frac{5}{8}$.

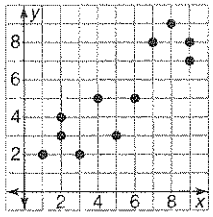
5. Find the product of 43.5 and 2.6.

Practice

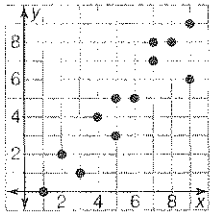
Determine whether the two sets of data in the scatter plot have a positive relationship, a negative relationship, or no relationship.

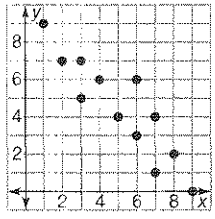
6. 

7. 

8. 

Draw a line of best fit for the data on the scatter plot.

9. 

10. 

Name _____ Date _____

Reflect & Review

1. The high temperatures in a city during one week were recorded as 98°F, 101°F, 93°F, 96°F, 92°F, 103°F, and 95°F. What was the average high temperature for the week? Round your answer to the nearest tenth of a degree.

2. A weather station is predicting a 30% chance of rain. What is the chance that it will not rain?

3. What is 40% of 1450?

4. Find the product $\frac{25}{36} \times \frac{27}{15} \times \frac{20}{33}$.

5. Find the least common multiple of 8 and 10.

Practice

Perform the indicated operations.

6. $5.88 \div 2.1$

7. $25.9 \div (-3.5)$

8. -4.3×6.3

9. $-\frac{6}{15} - \frac{3}{5}$

10. $\frac{6}{25} + \frac{7}{10}$

11. $2\frac{1}{8} \times 3\frac{3}{4}$

12. $4\frac{2}{5} - 2\frac{1}{8} + 6\frac{3}{10}$

13. $6.3 + 7.9 - 2.01$

14. $47 + 32 - 78$

Name _____ Date _____

Reflect & Review

1. You have a clear glass vase in the shape of a cylinder that you want to fill with sand. The cylinder is 18 inches tall and has a diameter of 4 inches. How much sand do you need? Use 3.14 for π.

2. The diameter of the sun at its equator is 1,390,000 kilometers. Write the diameter of the sun in scientific notation.

3. Round the decimal 625.644 to the nearest hundredth.

4. Simplify $5 - 4(5) + 8$.

5. Find the quotient $7\frac{1}{3} \div \frac{3}{11}$.

Practice

Find the value of the product or quotient of powers.

6. $(5)^{-3}(5)^4$

7. $(2)^7(2)^{-11}$

8. $\left(\frac{1}{3}\right)^5\left(\frac{1}{3}\right)^{-2}$

9. $\left(-\frac{1}{2}\right)^2\left(-\frac{1}{2}\right)^{-1}$

10. $\frac{(4)^6}{(4)^3}$

11. $\frac{(7)^{-1}}{(7)^2}$

12. $\frac{(3)^{-5}}{(3)^{-7}}$

13. $\frac{(-2)^4}{(-2)^8}$

14. $\frac{(10)^3}{(10)^{-2}}$

Name _____ Date _____

Reflect & Review

1. You and your family eat at a restaurant and the bill is $29.70 before tax. If the sales tax is 6%, how much do you have to pay in sales tax?

2. Kyle runs regularly at the school track. He wants to run $3\frac{1}{2}$ miles. If one lap is $\frac{1}{4}$ of a mile, how many times will he need to run around the track?

3. Solve the equation $6x + 12 = 8$.

4. Find the quotient $0.54 \div 0.9$.

5. Evaluate $\left(\frac{4}{9}\right)^{-3}$.

Practice

Write each fraction as a decimal.

6. $\frac{2}{3}$

7. $\frac{5}{6}$

8. $\frac{3}{8}$

Write the fraction that represents each repeating decimal.

9. 0.0303 ...

10. 0.5353 ...

11. 0.44 ...

Name _____ Date _____

Reflect & Review

1. There are 36 marbles in a bag. Fifteen of the marbles are red, 11 are blue, and 10 are green. What is the probability that you will draw a blue marble out of the bag?

2. Using the information from Question 1, what is the probability of drawing a red marble and then drawing a green marble, if you don't put the red marble back?

3. Find the slope and intercepts of the graph of $y = 4x - 8$.

4. Evaluate $7x - 12$ when $x = 2$.

5. Write the next three prime numbers after 13.

Practice

Decide whether each statement is true or false. Justify your decision with a complete sentence.

6. An integer is always a whole number.

7. An irrational number is sometimes a real number.

8. All integers are rational numbers.

For each problem, identify the property that is represented.

9. $4 \times 8 = 8 \times 4$

10. $\frac{4}{7} \times 1 = \frac{4}{7}$

11. $(10 + 27) + 19 = 10 + (27 + 19)$

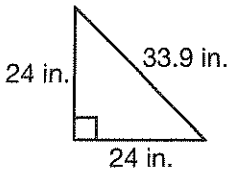
12. $-468 + 21 = 21 + (-468)$

Name _____ Date _____

Reflect & Review

1. Your quiz scores for history class are 87, 93, 65, 99, and 82. Find the mean, median, mode, and range of the scores.

2. You are building a deck box that will fit into the corner of the deck. The shape of the base of the box is shown at the right. What is the area of the base of the deck box?



3. Find the sum $4\frac{1}{3} + 8\frac{1}{4} + \frac{5}{12}$.

4. Solve the proportion $\frac{r}{8} = \frac{6}{4}$.

5. Write the prime factorization of 72.

Practice

Use the distributive property to evaluate each expression. Show all your work.

6. $5(8 + 3)$

7. $-4(7 + 2x)$

8. $9(x + 5)$

9. $6(3x - 1)$

10. $\frac{20 + 30}{5}$

11. $\frac{-15 + 12}{-3}$

Identify the property used in each step of the solution.

12.
$$2(x - 1) + 7 = 11$$
$$2(x - 1) + 7 - 7 = 11 - 7$$
$$2(x - 1) = 4$$
$$2x - 2 = 4$$
$$2x - 2 + 2 = 4 + 2$$
$$2x = 6$$
$$\frac{2x}{2} = \frac{6}{2}$$
$$x = 3$$

_____
_____
_____
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Skills Practice

Name _____ Date _____

Reflect & Review

1. Donnie is planting a row of plants along one side of his house. He is planting along a section of the house that is 12 feet long. Each plant takes up about $1\frac{1}{2}$ feet of space. How many plants can he plant in the row?

2. Lexi wants a new digital camera. The camera is $130 plus tax. If the sales tax is 7%, how much will the sales tax on the camera be?

3. Use mental math to find the quotient $\frac{3}{4} \div \frac{9}{16}$.

4. Solve the equation $\frac{1}{5}x = 8$.

5. Find the sum of 23.4 and 98.7.

Practice

Graph each ordered pair in the coordinate plane. Identify the quadrant in which the point represented by the ordered pair lies.

6. (−5, 2)

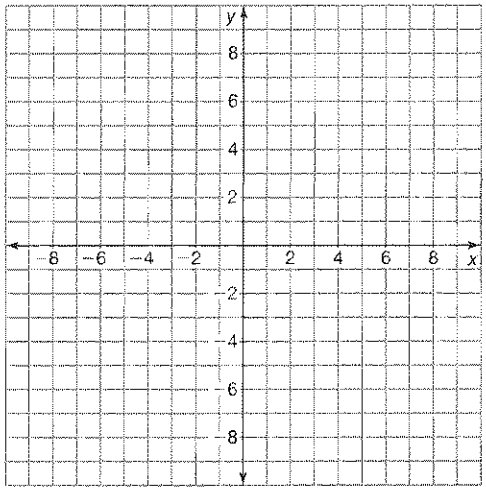
7. (7, −1)

8. (−2, −3)

9. (−4, 4)

10. (−1, −6)

11. (−2, 5)



Name _____ Date _____

Reflect & Review

1. Patty walks 2.3 miles a day, 5 days a week. How many miles does she walk in a year?

2. Rachel's test scores for this semester are 78, 93, 89, 86, and 95. What is her average score?

3. Seventy eight is what percent of 160?

4. Use mental math to find the product of 58 and 4.

5. Decide where to place the parentheses so that the answer is correct using the order of operations.

   $5 + 17 - 8 \times 4 + 24 \div 7 = 41$

Practice

6. You are making a scale model of a statue of your school's mascot, the tiger. The actual statue is 8 feet tall. Determine the height of the model if you use a scale in which 10 feet are equal to 1 inch.

7. An action figure is 3.5 inches tall. The package that the figure came in states that a scale in which 1.75 feet are equal to 1 inch was used to create the figure. Find the height of the model that was used to create the action figure.

Name _____ Date _____

Reflect & Review

1. Claire wants to install an inground hot tub. The diameter of the hot tub is 6 feet. She wants to pave 2 feet out from the edge of the hot tub. Find the area she wants to pave. Round the area to the nearest square foot.

2. Hattie works at an amusement park during the summer. She earns $7.50 per hour and receives a bonus of $50 for every 20 hours worked. How much money will she make per week if she works 23 hours?

3. Find the product $\frac{6}{25} \times \frac{35}{48} \times \frac{64}{49}$.

4. Simplify $10 - 6 \times 2 + 8 \div 4$.

15

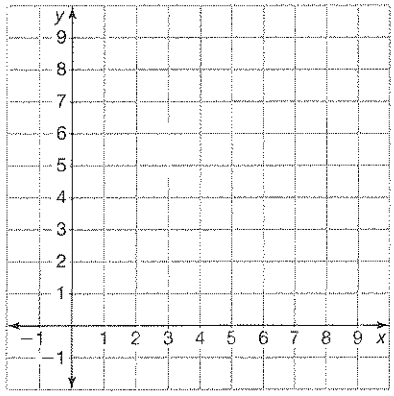
Practice

The vertices of a figure are given. Graph the figure in the coordinate plane. Then perform the indicated translation and draw the new figure.

5. Rectangle:
(2, 5), (2, −1), (4, 5), (4, −1)

Vertical translation: +3 units

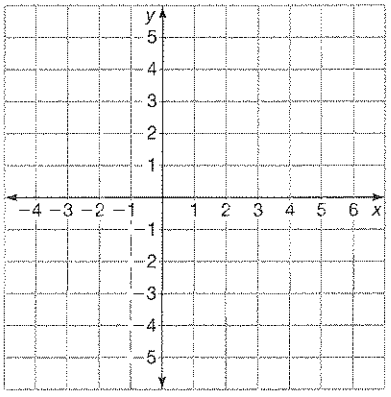
Horizontal translation: −1 unit



6. Quadrilateral:
(−3, 0), (−1, −1), (1, 4), (4, 3)

Vertical translation: −2 units

Horizontal translation: +2 units



Name _____ Date _____

Reflect & Review

1. A grain silo in the shape of a cylinder is 55 feet high and has a diameter of 10 feet. Find the amount of grain the silo can hold. Use 3.14 for π.

2. If the silo in Question 1 is only 90% filled, how much grain is in the silo?

3. Use mental math to find the product of 3600 and 5.

4. Find the quotient $\frac{4}{5} \div \frac{2}{3}$.

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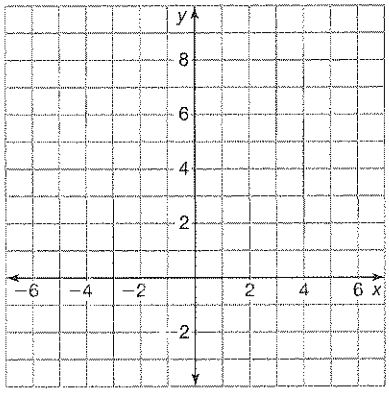
Practice

The vertices of a figure are given. Graph the figure in the coordinate plane. Then perform the indicated reflection and draw the new figure.

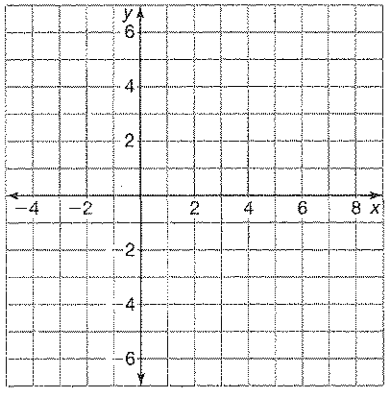
5. Rectangle:
(1, 0), (1, 5), (6, 0), (6, 5)

Reflect figure in *y*-axis



6. Quadrilateral:
(−2, −1), (0, −4), (6, −3), (2, −1)

Reflect figure in *x*-axis



Name _____ Date _____

Reflect & Review

1. Nancy and Melissa are making brownies for the Assisted Living Center. They want to double the recipe but don't know if they have enough flour. If the original recipe requires $2\frac{1}{2}$ cups of flour, how much flour would be required if they double it?

2. A scientist wants to track a mouse's movements in a maze on a coordinate plane. The mouse begins at the origin and travels left 5 units, up 7 units, right 8 units, and then down 3 units. Where is the mouse on the coordinate plane?

3. Find the volume of a cube with a length of 6 meters, a height of 5 meters, and a width of 7 meters.

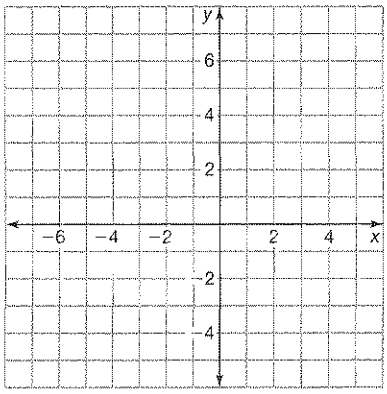
4. Use mental math to find the sum $\frac{1}{4} + \frac{1}{4}$.

15

Practice

The vertices of a figure are given. Graph the figure in the coordinate plane. Then perform the transformations and draw the new figure.

5. Triangle: (−2, 5), (3, 0), (−4, −1)
   Vertical translation: −2 units
   Horizontal translation: +1 unit
   Reflect figure in *y*-axis



6. Rectangle: (6, 0), (6, −8), (2, −8), (2, 0)
   Dilate by a scale factor of 0.5 using the origin as the center of dilation
   Vertical translation: +3 units
   Horizontal translation: −2 units