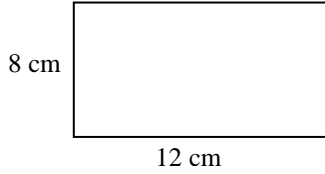


Perimeter, Circumference, Area; Evaluate Expressions

Long-Term Memory Review – Grade 7

Review 1

1. The formula for finding the area of a rectangle is $A = l \cdot w$. The length of a rectangle is 8 cm, and the width is 12 cm. What is the area of the rectangle?



2. Evaluate the expression $3x - 16$ when $x = 26$.

3. David is building a garden in the shape of rhombus. If the side length is 14 feet, how much fencing will he need to border the garden?



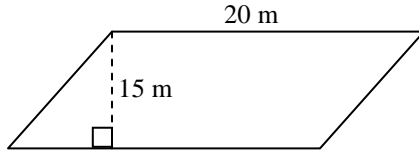
4. If the radius of a circle is 9 cm, what is the area? (Note: $A = \pi r^2$; use 3.14 for π .)

Perimeter, Circumference, Area; Evaluate Expressions

Long-Term Memory Review – Grade 7

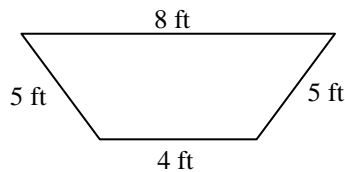
Review 2

- Eric needs to tile the floor in a room shaped like a parallelogram. The floor plan is shown below. What is the area of the floor he needs to tile? ($A = bh$)



- Evaluate the expression $2x + 4y$ when $x = 4$ and $y = -3$.

- Yesnia is building a garden for her flowers. Her design is shown below. How many feet of fence will Yesnia need to border her garden?



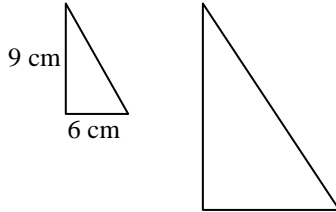
- If the diameter of a circle is 12 meters, what is the area? (Note: $A = \pi r^2$; use 3.14 for π .)

Perimeter, Circumference, Area; Evaluate Expressions

Long-Term Memory Review – Grade 7

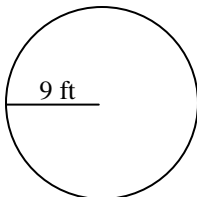
Review 3

1. Sarah has two triangles, the first with a base of 6 cm and a height of 9 cm. The second triangle's base and height are double the first triangle. What is the area of the second triangle? $\left(A = \frac{1}{2}bh \right)$



2. Evaluate the expression $(5x+6)-2x$ using $x=5$.

3. Juan has a lawn in the shape of a circle. The radius of the lawn is 9 feet. What is the circumference of his lawn?
(Note: $C = 2\pi r$; use 3.14 for π .)



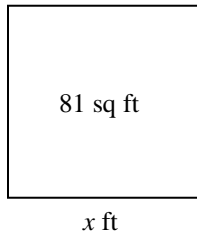
4. A babysitter charges \$5.00 for the first hour of work. She charges \$4.00 for each additional hour, h , of babysitting. Which expression represents her charges?
- A. $5h+4$
 - B. $h+5$
 - C. $5+4h$
 - D. $9h$

Perimeter, Circumference, Area; Evaluate Expressions

Long-Term Memory Review – Grade 7

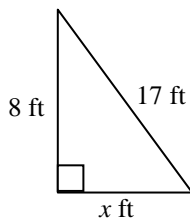
Review 4

1. Katrina has a square pen for her dog. The area of the pen is 81 square feet. How much fence will Katrina need to enclose the dog pen?



2. Evaluate the expression $2y + 6x - 4$ given that $x = 3$ and $y = 4.5$. Show your work.

3. Jordan put up a fence around his triangular lawn, as shown in the diagram. The amount of fence he needed was 40 feet. What is the area of his lawn?



4. A babysitter charges \$6.00 for 1 child for 1 hour of service. She charges an additional \$2.00 for each additional child and an additional \$2.00 each for a 2nd hour. If a family has 4 children, how much will she charge for 2 hours? Use the table below to organize and show your work.

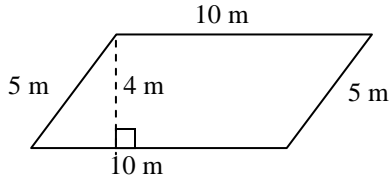
# of Kids	1 st Hour	2 nd Hour
1	\$6.00	
2		
3		
4		

Perimeter, Circumference, Area; Evaluate Expressions

Long-Term Memory Review – Grade 7

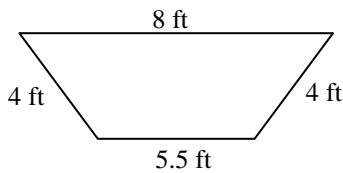
Quiz

- Charlie wants to make a banner in the shape of a parallelogram. His design is shown below. What is the area of the banner? ($A = bh$)



- Evaluate the expression $2y + 7x - 3$ given that $x = -2$ and $y = 3.5$. Show your work.

- Rita is building a garden for her rose bushes. Her design is shown below. How many feet of fencing border will Rita need to enclose her rose garden?



- If the diameter of a circle is 11 inches, what is the circumference? (Note: $C = 2\pi r$; use 3.14 for π .)
- A rental car company charges \$14.00 per day, plus \$0.15 per mile driven. If you rent a car for a week and drive m miles, which expression represents the cost of renting the car?
 - $4m + 0.15$
 - $14m + 0.15(7)$
 - $14(7) + 0.15m$
 - $14(7)m + 0.15$

Perimeter, Circumference, Area; Evaluate Expressions

Long-Term Memory Review – Grade 7

Answers

Review 1- Answers

- 1) 96 cm^2
- 2) 62
- 3) 56 ft
- 4) $81\pi \text{ cm}^2 \approx 254.34 \text{ cm}^2$

Review 2- Answers

- 1) 300 m^2
- 2) -4
- 3) 22 ft
- 4) $36\pi \text{ m}^2 \approx 113.04 \text{ m}^2$

Review 3- Answers

- 1) 108 cm^2
- 2) 21
- 3) $18\pi \text{ ft}^2 \approx 56.52 \text{ ft}^2$
- 4) C

Review 4- Answers

- 1) 36 ft
- 2) 23
- 3) 60 ft^2
- 4)

# of Kids	1 st Hour	2 nd Hour
1	\$6.00	\$8.00
2	\$8.00	\$10.00
3	\$10.00	\$12.00
4	\$12.00	\$14.00

Cost of 4 kids for 2 hours = $\$12.00 + \$14.00 = \$26.00$

Quiz- Answers

- 1) 40 m^2
- 2) -10
- 3) 21.5 ft
- 4) $11\pi \text{ in} \approx 34.54 \text{ in}$
- 5) C