

6th Grade Review #1

Name: _____

Date: _____ Period : _____

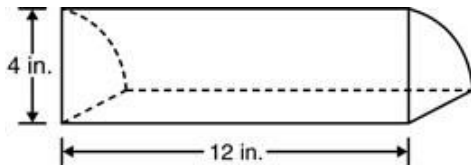
<p>1. In which expression is the number 3 expressed as a coefficient of a variable?</p> <ul style="list-style-type: none">a. $3 + y$b. $3y + 1$c. $3 - y$d. $7(3 + y)$	<p>2. Sigi's taxi company charges \$0.60 per mile and adds an additional \$4.50 to cover the cost of bridge tolls. The expression below represents this relationship.</p> <p>$0.60m + 4.50$, where m represents the number of miles</p> <p>How much will the taxi company charge for a 36-mile drive?</p>
<p>3. An empty can weighs 30 grams. The weight of the same can filled with liquid is 47.3 grams. Which equation could be used to find w, the weight of the liquid?</p> <ul style="list-style-type: none">a. $47.3 + w = 30$b. $30 + 47.3 = w$c. $w + 47.3 = 30$d. $w + 30 = 47.3$	<p>4. Which expression represents one-half the sum of x and 10?</p> <ul style="list-style-type: none">a. $\frac{1}{2} + 10x$b. $\frac{1}{2}(x + 10)$c. $\frac{1}{2}x + 10$d. $\frac{1}{2}x + 10x$
<p>5. Karen uses $\frac{1}{7}$ of her weekly free time talking to her friends on the phone. She talks to her friends for five hours every week. How many hours of free time does Karen have every week?</p>	<p>6. Julie's pool has a length of 10.5 ft, a width of 20 ft, and a depth of 5 ft. What is the volume of the pool?</p>

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7. The solid below was made from one-fourth of a cylinder. The dimensions are given in inches.



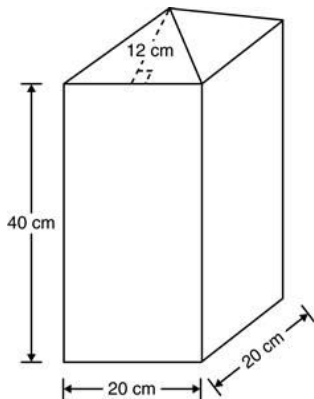
What measure is closest to the surface area of this solid?

- a. 100 in^2
- b. 121 in^2
- c. 151 in^2
- d. 196 in^2

8. Triangle LMN has vertices at coordinates $L(4, 2)$, $M(0, 7)$, and $N(0, 2)$. What is the area of triangle LMN?

- a. 10 units^2
- b. 12 units^2
- c. 14 units^2
- d. 20 units^2

9. Shaundra glued a rectangular prism and a right square pyramid together. The dimensions of the solid are given in centimeters (cm).



What is the total surface area of the figure?

- a. 10
- b. 20
- c. 30
- d. 40

11. Tina bought a notebook for \$6.59, a backpack for \$24.95, and a pen for \$4.98.

- She paid \$2.56 in sales tax.
- She had \$2.81 left.

How much money did Tina have before her purchases?

12. The lunch special at Del's Restaurant repeats every 8 days, and the lunch special at Emily's Restaurant repeats every 12 days. Both restaurants are serving the same lunch special today, chicken fried steak with gravy. How many days will there be until the next time both restaurants again serve chicken fried steak with gravy?

- a. 4
- b. 20
- c. 24
- d. 96

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Answer Key:

- 1.) B
- 2.) \$26.10
- 3.) D
- 4.) B
- 5.) 35
- 6.) 1,050 ft³
- 7.) D
- 8.) A
- 9.) 4,080 cm²
- 10.) D
- 11.) \$41.89
- 12.) C