

Spring BREAK



Math. Reading. Trust. Results.

Math Prep Grade 6

Prep it up!





NAME _____

DATE _____

1. Michael has $9\frac{3}{8}$ cups of glue. He wants to put $1\frac{7}{8}$ cups into each smaller container.

How many smaller containers can he fill?

- (A) 21 (B) 20 (C) 7 (D) 6 (E) 5

2. Sally saw a recipe on the internet for 7 people. The recipe contained 14 cups of caramel and 35 cups of chocolate ice cream. Sally would like to make this recipe for herself. How many cups of ice cream does she need?

- (A) 6 (B) 5 (C) 4 (D) 3 (E) 2

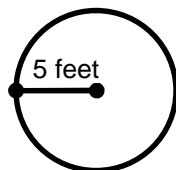
3. *Prize Man* is a radio talk show host. He announced that he would give the next caller one-third their week's pay plus \$75. Let w equal a caller's week's pay.

Which expression can be used to calculate the total prize for the next caller?

- (A) $\frac{w}{3} - 75$ (C) $\frac{w}{3} + 75$
(B) $\frac{w + 75}{3}$ (D) $3w + 75$ (E) $3w - 75$

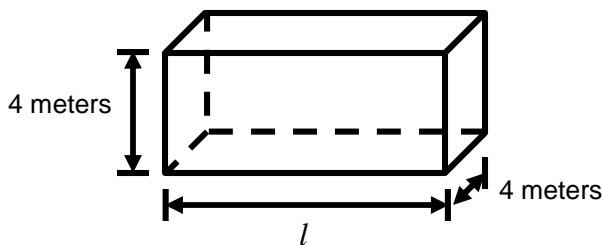
4. Brittany has a circular disk. She wants to paint the disk.

What is the area of the disk, in square feet, rounded to the nearest hundredth?



- (A) 25.12 (B) 50.24 (C) 64.00 (D) 64.48 (E) 78.50

5. Robert has a box whose volume is 320 cubic meters. The dimensions of the box are given below. What is l , the length of the box, in meters?



Note: Figure not drawn to scale.

- (A) 4 (B) 19 (C) 20 (D) 24 (E) 32



NAME _____

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1. Eileen has $14\frac{2}{3}$ cups of water. She wants to put $1\frac{5}{6}$ cups into each smaller container.

How many smaller containers can she fill?

- (A) 9 (B) 8 (C) 7 (D) 6 (E) 5

2. Zane saw a recipe on the internet for 6 people. The recipe contained 12 cups of caramel and 24 cups of chocolate ice cream. Zane would like to make this recipe for himself. How many cups of ice cream does he need?

- (A) 6 (B) 5 (C) 4 (D) 3 (E) 2

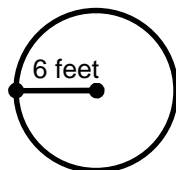
3. *Prize Man* is a radio talk show host. He announced that he would give the next caller \$75 less than four times their week's pay. Let w equal a caller's week's pay.

Which expression can be used to calculate the total prize for the next caller?

- (A) $\frac{w}{4} - 75$ (C) $\frac{w}{4} + 75$
(B) $\frac{w + 75}{4}$ (D) $4w + 75$ (E) $4w - 75$

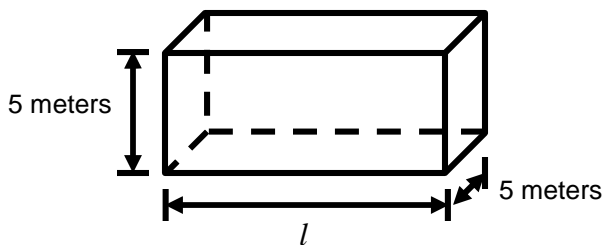
4. Terrance has a circular disk. He wants to paint the disk.

What is the area of the disk, in square feet, rounded to the nearest hundredth?



- (A) 131.04 (B) 113.04 (C) 110.43 (D) 110.34 (E) 101.34

5. Robert has a box whose volume is 400 cubic meters. The dimensions of the box are given below. What is l , the length of the box, in meters?



Note: Figure not drawn to scale.

- (A) 27 (B) 26 (C) 25 (D) 16 (E) 15



NAME _____

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1. Jerry has 19 cups of water. He wants to put $2\frac{5}{7}$ cups into each smaller container.

How many smaller containers can he fill?

- (A) 9 (B) 8 (C) 7 (D) 6 (E) 5

2. Pat saw a recipe on TV for 8 people. The recipe contained 16 cups of caramel and 40 cups of chocolate ice cream. Pat would like to make this recipe for herself. How many cups of ice cream does she need?

- (A) 6 (B) 5 (C) 4 (D) 3 (E) 2

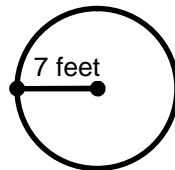
3. *Prize Man* is a radio talk show host. He announced that he would give the next caller \$60 less than one-fifth their week's pay. Let w equal a caller's week's pay.

Which expression can be used to calculate the total prize for the next caller?

- (A) $\frac{w}{5} - 60$ (C) $\frac{w}{5} + 60$
(B) $\frac{w + 60}{5}$ (D) $5w + 60$ (E) $5w - 60$

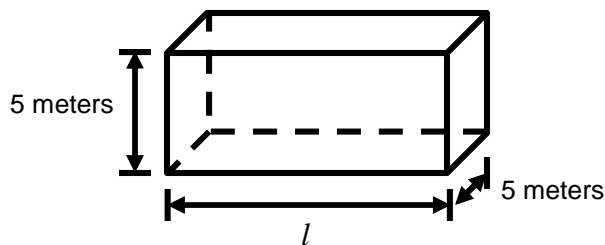
4. Terrance has a circular disk. He wants to paint the disk.

What is the area of the disk, in square feet, rounded to the nearest hundredth?



- (A) 135.68 (B) 135.86 (C) 136.85 (D) 153.86 (E) 158.83

5. Robert has a box whose volume is 500 cubic meters. The dimensions of the box are given below. What is l , the length of the box, in meters?



Note: Figure not drawn to scale.

- (A) 4 (B) 5 (C) 10 (D) 15 (E) 20



NAME _____

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1. The **output**, y , is related to the **input**, x , according to the following equation: $y = \frac{x}{3} + 2$.

x (Input)	3	9	12	15	18	21	24	27
y (Output)	3	5	6	7	8	9	10	11

What is the value of y when x is 57?

- (A) 17 (B) 18 (C) 19 (D) 20 (E) 21

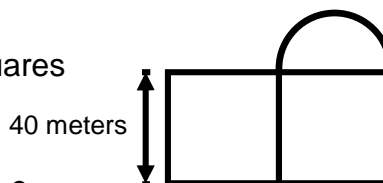
2. There were 800 cars on a car lot. Of that amount, $\frac{1}{8}$ were sedans.

Vans made up 71.875% of the cars on the lot. The remaining cars were sports cars.

How many sports cars were there?

- (A) 420 (B) 380 (C) 280 (D) 125 (E) 100

3. The floor plan of a house is shown by the figure. The floor is designed by joining two congruent squares with a semi-circle.



What is the total area of the floor, in square meters?

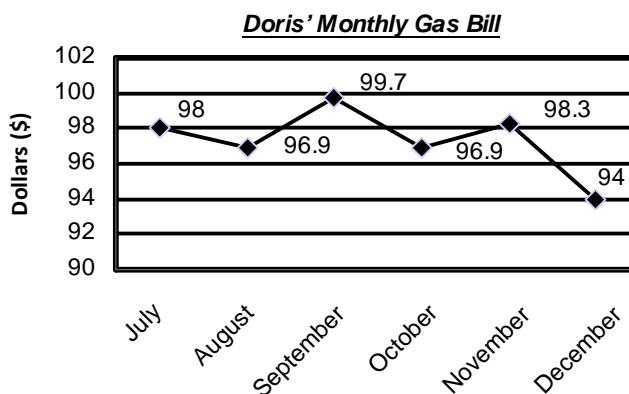
Note: Figure not drawn to scale.

- (A) 3200.00 m² (B) 3208.08 m² (C) 3208.80 m² (D) 3288.00 m² (E) 3828.00 m²

4. Which of the numbers below is closest to the number 73.9%?

- (A) 0.7401 (B) $\frac{7}{8}$ (C) .741 (D) $\frac{5}{7}$ (E) 73.55%

5. Doris was paying a lot of money for her gas bill. She decided to display the amount that she paid into a line graph. What was the mean amount she paid for six months, in dollars?



- (A) 97.3 (B) 98.1 (C) 98.3 (D) 99.5 (E) 99.7



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1. The **output**, y , is related to the **input**, x , according to the following equation: $y = \frac{x}{4} - 8$.

x (Input)	4	8	12	16	20	24	28	32
y (Output)	-7	-6	-5	-4	-3	-2	-1	0

What is the value of y when x is 60?

- (A) 7 (B) 8 (C) 9 (D) 10 (E) 11

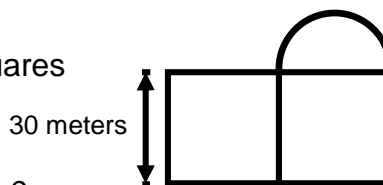
2. There were 800 cars on a car lot. Of that amount, $\frac{3}{5}$ were sedans.

Vans made up 25.00% of the cars on the lot. The remaining cars were sports cars.

How many sports cars were there?

- (A) 100 (B) 120 (C) 200 (D) 210 (E) 480

3. The floor plan of a house is shown by the figure. The floor is designed by joining two congruent squares with a semi-circle.



What is the total area of the floor, in square meters?

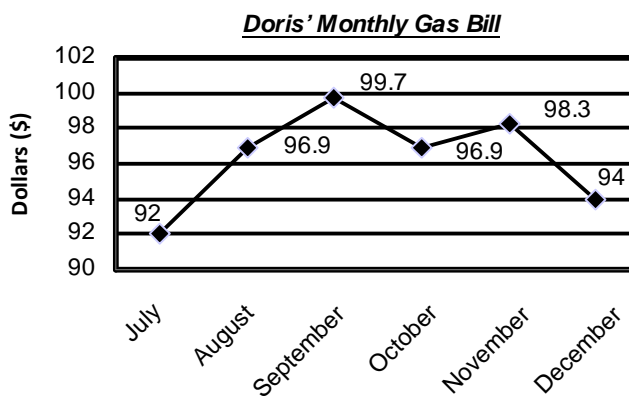
Note: Figure not drawn to scale.

- (A) 2125.35 m² (B) 2135.25 m² (C) 2135.52 m² (D) 2153.25 m² (E) 2155.32 m²

4. Which of the numbers below is closest to the number 62.05%?

- (A) 0.6251 (B) $\frac{5}{8}$ (C) .6305 (D) $\frac{2}{6}$ (E) 62.45%

5. Doris was paying a lot of money for her gas bill. She decided to display the amount that she paid into a line graph. What was the mean amount she paid for six months, in dollars?



- (A) 93.3 (B) 94.1 (C) 96.3 (D) 98.5 (E) 99.7



NAME _____

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1. The **output**, y , is related to the **input**, x , according to the following equation: $y = \frac{x}{6} + 4$.

x (Input)	6	12	18	24	30	36	42	48
y (Output)	5	6	7	8	9	10	11	12

What is the value of y when x is 60?

- (A) 11 (B) 12 (C) 13 (D) 14 (E) 15

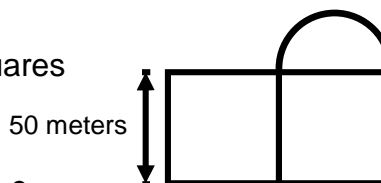
2. There were 700 cars on a car lot. Of that amount, $\frac{3}{5}$ were sedans.

Vans made up 25.00% of the cars on the lot. The remaining cars were sports cars.

How many sports cars were there?

- (A) 420 (B) 275 (C) 205 (D) 175 (E) 105

3. The floor plan of a house is shown by the figure. The floor is designed by joining two congruent squares with a semi-circle.



What is the total area of the floor, in square meters?

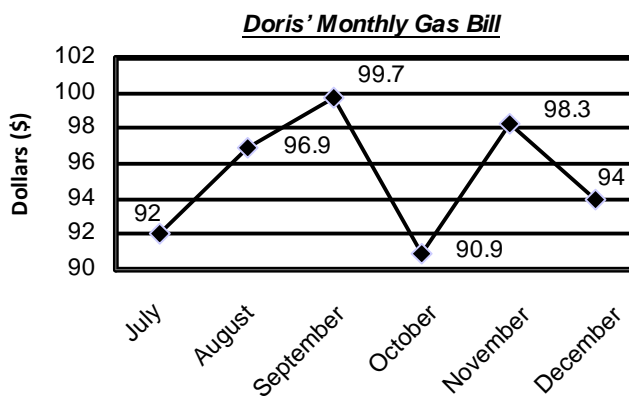
Note: Figure not drawn to scale.

- (A) 5985.12 m² (B) 5981.25 m² (C) 5891.25 m² (D) 5819.52 m² (E) 5819.25 m²

4. Which of the numbers below is closest to the number 34.58%?

- (A) 0.3658 (B) $\frac{7}{20}$ (C) .3460 (D) $\frac{3}{4}$ (E) 34.06%

5. Doris was paying a lot of money for her gas bill. She decided to display the amount that she paid into a line graph. What was the mean amount she paid for six months, in dollars?



- (A) 99.7 (B) 95.3 (C) 93.5 (D) 92.0 (E) 90.9