

1 A circular plate has a diameter of 9 inches. What is the area of the dish?

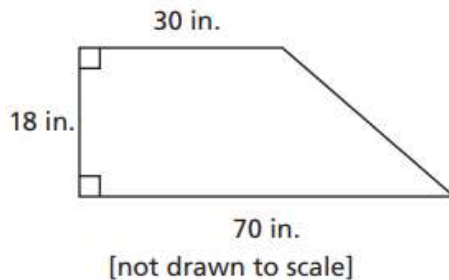
- A** $12.56\pi \text{ in.}^2$
- B** $16\pi \text{ in.}^2$
- C** $20.25\pi \text{ in.}^2$
- D** $81\pi \text{ in.}^2$

2 Which equation is true?

- A** $\frac{4}{-9} = \frac{4}{9}$
- B** $\frac{4}{-9} = \frac{2}{-3}$
- C** $\frac{4}{-9} = \frac{-4}{9}$
- D** $\frac{4}{-9} = \frac{2}{3}$

3.

The figure below shows one of the paving stones in Jack's garden.



What is the area of the paving stone?

- A** 450 in.^2
- B** 900 in.^2
- C** $1,680 \text{ in.}^2$
- D** $1,800 \text{ in.}^2$

Doubling the sum of Steve's and Pam's ages gives 38. If Pam is 10 years old, how old is Steve?

- A** 4 years old
- B** 9 years old
- C** 14 years old
- D** 29 years old

5.

The table below shows how much flour Quon needs to bake various numbers of scones.

Scones	Cups of Flour
12	3
20	5
28	7

How many cups of flour does Quon need for each scone?

- A $\frac{1}{4}$
- B $\frac{3}{4}$
- C 3
- D 4

6.

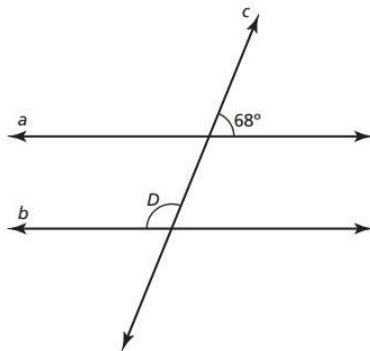
A carpet store charges by the square yard for a particular brand of carpet. The price for 38 square yards is \$294.50.

At this rate, what is the price for 54 square yards of the carpet?

- A \$391.50
- B \$418.50
- C \$445.50
- D \$472.50

7.

35 Lines a and b are parallel.



What is the measure of $\angle D$?

- A 22°
- B 68°
- C 112°
- D 122°

8.

A butcher is dividing a round of beef into 3 equal-sized roasts. If each roast weighs 7.9 pounds, and there are 1.4 pounds of beef left over, how much did the round weigh?

- A** 19.5 pounds
- B** 22.3 pounds
- C** 25.1 pounds
- D** 27.9 pounds

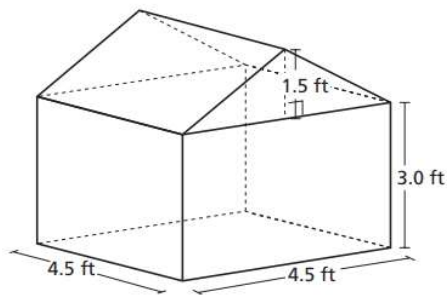
9.

Sapphire has one bag with 8 apples and 12 oranges, and another bag with 6 apples and 9 oranges. What is the number of oranges per apple in each bag?

- A** 12
- B** 8
- C** $\frac{3}{2}$
- D** $\frac{2}{3}$

10.

The diagram below shows a doghouse that Calvino built.

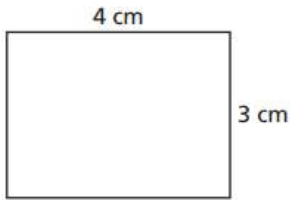


What is the volume of the doghouse?

- A** 75.9375 ft³
- B** 60.75 ft³
- C** 30.375 ft³
- D** 15.1875 ft³

11.

The figure below is a scale drawing of a vacant lot in Phil's neighborhood. The scale of the drawing is 1 centimeter = 15 meters.



What is the actual area of the lot?

- A 180 m²
- B 210 m²
- C 2,700 m²
- D 3,600 m²

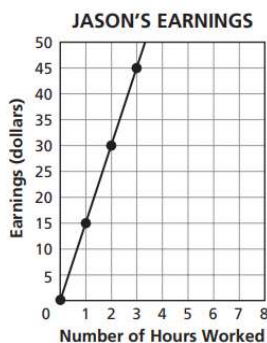
12.

Iba constructed $\triangle ABC$ in her notebook. \overline{AB} was 12 centimeters long. \overline{BC} was 10 centimeters long. Which measurement could be the length of \overline{AC} ?

- A 24 cm
- B 23 cm
- C 22 cm
- D 21 cm

13.

The graph below shows Jason's earnings based on the number of hours he works.



What point on the graph represents Jason's hourly pay rate?

- A (0, 0)
- B (1, 15)
- C (2, 30)
- D (3, 45)