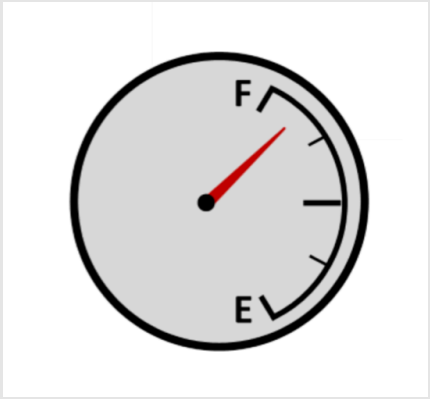
Problem 1

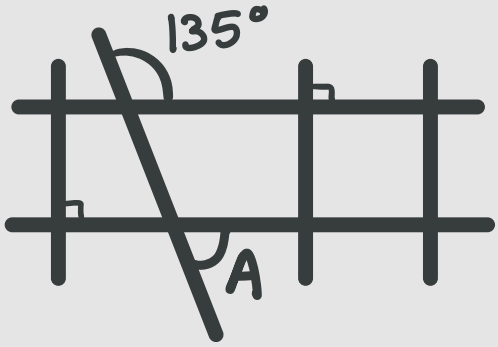
(1) What time is shown on the clock?

(2) About how full is the gas tank?



Problem 2

What is the measure of angle A?



Problem 3

What is the smaller dog's weight in pounds?

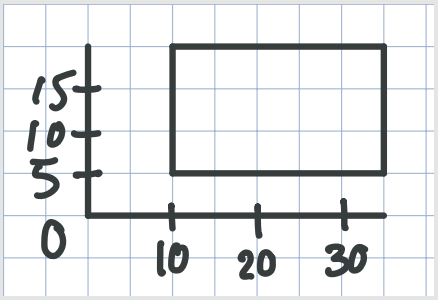
(A) 20
(B) 60
(C) 30
(D) 15

Large dog
880 ounces
55 pounds

Small dog
320 ounces
? pounds

Problem 4

What is the area of the rectangle?



Problem 5

A new coffee maker uses 37% less energy than the older model. The older model uses $18.50 worth of energy each year. How much less does it cost to operate the new coffee maker for one year than it costs to operate the older model?

(A) $25.35
(B) $6.85
(C) $9.25
(D) $11.65

Problem 6

Angela paid $8.25 for her lunch. Terri paid 25% more for her lunch than Angela did. How much did Terri pay for her lunch?

(A) $10.31
(B) $8.50
(C) $11.25
(D) $6.19

Problem 7

Rose has a job painting coffee tables at a warehouse. When she comes to work in the morning, she spends 30 minutes preparing the area where she paints. Then, it takes her 45 minutes to paint each piece of furniture. Let T = time and c = the number of coffee tables.

(1) Which equation shows the time it takes for Rose to prepare and then paint c coffee tables?

(A) T = 30 x C x 45
(B) T = 45 + 30 x C
(C) T = 45 x C + 30
(D) T = 30 + 45

(2) If C = 4 , what does T equal?

(A) 3 hours and 30 minutes
(B) 2 hours and 30 minutes
(C) 3 hours and 50 minutes
(D) 2 hours and 50 minutes

Problem 8

Use the formulas below to convert between Fahrenheit and Celsius temperatures:

°C x 1.8 + 32° = F°

Convert

(A) 0°C to °F

(B) 115°C to °F

(C) -35°C to °F

(D) 75° F to °C

Problem 9

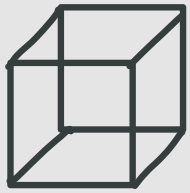
If the volume of box A is 32 cm³ and we can fit exactly 6 balloons in the box, how many balloons can we fit in box B?

(A) 10

(B) 5

(C) 16

(D) 9



BOX B, Volume = 48 cm³

Problem 10

A sports team held a car wash to raise money to help pay for travel costs. They charged $7 for every car they washed. The team raised $350 washing cars. Which equation can be used to find the number of cars they washed? Use N for the number of cars they washed.

(A) $\$350 = \frac{N}{7}$

(B) $\$350 = \frac{7}{N}$

(C) $N = \frac{\$350}{7}$

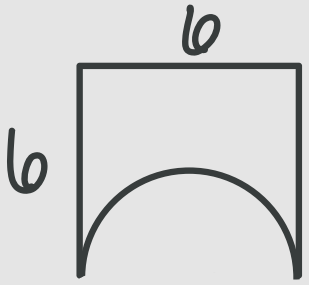
(D) $N = \frac{7}{350}$

Problem 11

The diagram shows a square with half of a circle cut out. Which of the following is equal to the area of the shape?

Circle

$A = \pi r^2$



(A) $36 + \pi(3)^2$

(B) $36 + \frac{1}{2}\pi(3)^2$

(C) $36 - \frac{1}{2}\pi(3)^2$

(D) $36 - \pi(3)^2$

Problem 12

(1) What are the percent equivalents for the following fractions:

(1) 1/5

(2) 1/10

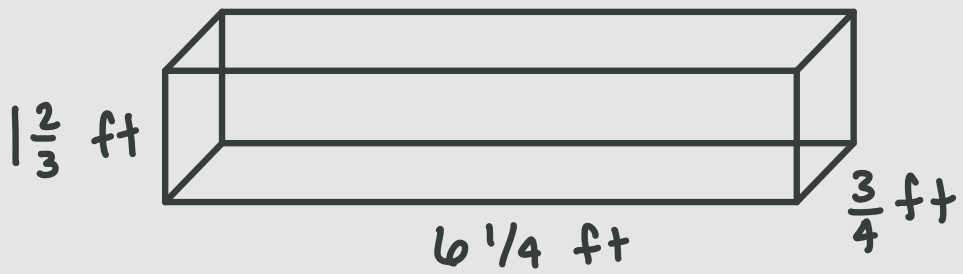
(3) 3/4

(2) Place the fractions and percents in order from smallest to largest:

1/10 , 0, -1/5, 75% , -25%, 1½

Problem 13

What is the volume of the shape:



Problem 14

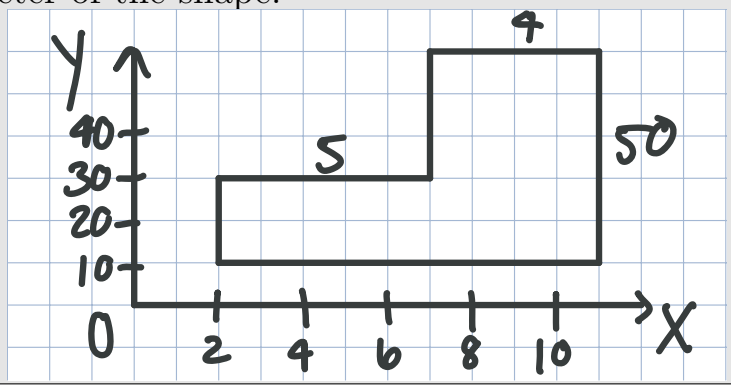
What is the perimeter of the shape:

(A) 118

(B) 125

(C) 45

(D) 59



Problem 15

Sammy wasn't feeling well last week and decided to track their temperature every morning. What was the average temperature for Sammy from Tuesday - Saturday?

(A) 98.6°

(B) 99.7°

(C) 101°

(D) 99.5°

DAY	TEMP
MON	98.6°
TUES	99.2°
WED	99.1°
THURS	99.8°
FRI	100.2°
SAT	100.0°

Problem 16

Which day had the greatest difference between the recorded low and high temperature?

DAY	LOW	HIGH
SUN	-12°	9°
MON	-5°	15°
TUES	0°	7°
WED	0°	11°
THURS	8°	22°
FRI	-2°	11°
SAT	-7°	9°

Problem 17

A customer paid $24 for pants after the discount. What was the retail (original) price?

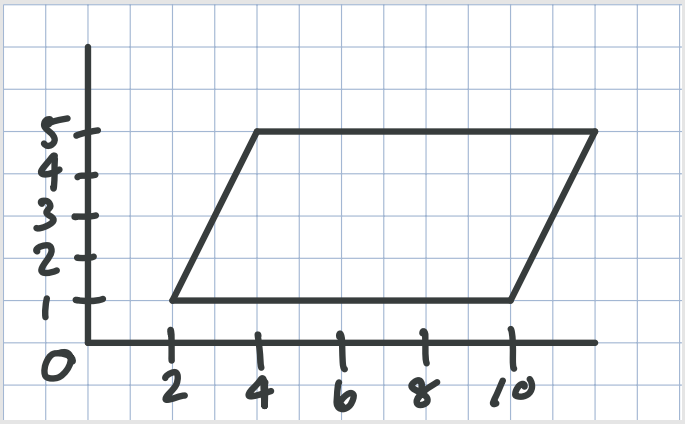
(A) $30
(B) $32
(C) $27
(D) $35

DISCOUNTS
- Shirts 25% off
- Shoes 15% off
- Pants 25% off

Problem 18

Use the diagram to answer the question. What is the area of the quadrilateral?

(A) 32
(B) 24
(C) 60
(D) 36



Problem 19

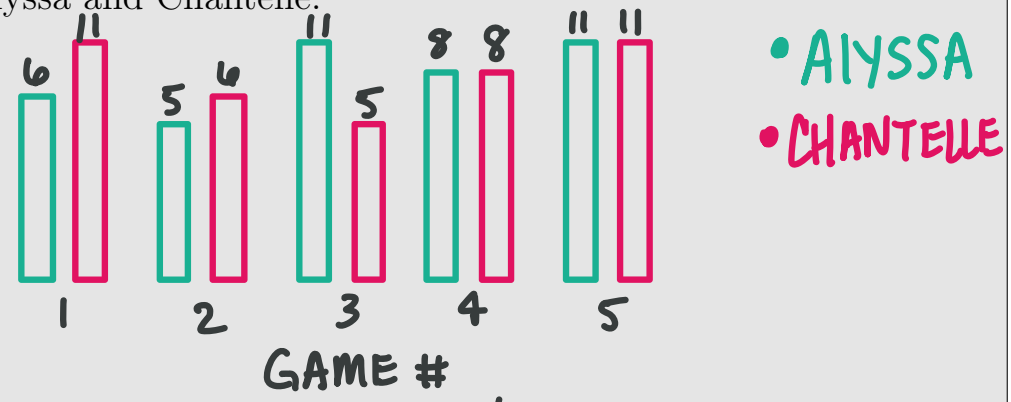
Yvonne made 3.5 gal. of jam. She wants to pour the jam into 1 pint jars. How many jars can she fill?

(A) 8
(B) 11.5
(C) 24
(D) 28

1 gal. = 8 pints

Problem 20

The graph shows the number of points scored by two players on a basketball team, Alyssa and Chantelle.



(1) During which game(s) did Alyssa score 6 points more than Chantelle?

(A) Game 3
(B) Game 11
(C) Game 4,5
(D) Game 4

(2)What was Chantelle's point average?

(A) 8.0
(B) 7.2
(C) 11.0
(D) 8.2

Problem 21

Maria stirred the lemon sauce for 8 min. 30 sec., but the sauce needed more stirring so Maria continued for another 3 min 45 sec.. What was the total time the lemon sauce was stirred?

(A) 11 min. 15 sec.
(B) 12 min. 45 sec.
(C) 12 min. 15 sec.
(D) 11 min. 45 sec.

Problem 22

Two quarters are tossed at the same time. What is the probability that both coins will show heads?

(A) 1/3
(B) 1/2
(C) 2/3
(D) 1/4

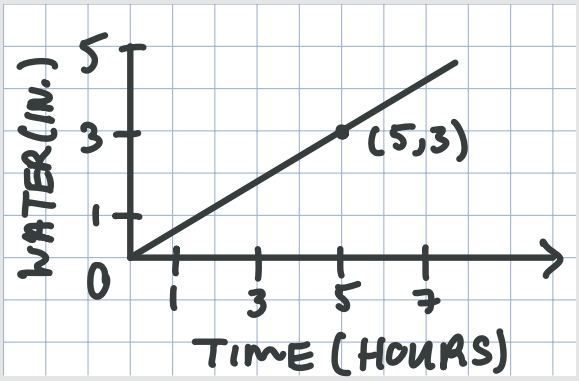
Problem 23

The race times for a track meet are listed in the table below. How much time went by between when Brooklyn and Justice finished the race?

MARY	6 min. 42 sec.
BROOKLYN	8 min. 42 sec.
AISHA	5 min 59 sec.
CASEY	6 min. 55 sec.
JUSTICE	6 min. 35 sec.

Problem 24

A bucket near a sprinkler was slowly filling up with water, as shown in the graph. At what rate was the sprinkler water filling the bucket?



Problem 25

Consider this list of test scores:

88%, 79%, 81%, 93%, 91%

(1) What is the average of the test scores when only considering percentages that are an odd number?

(A) 88.8%

(B) 68.8%

(C) 86.4%

(D) 86%

(2) What is the mean, median, and mode of the test scores?