

Government AFQT-Math

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Question: 1

Using the rules for order of operation simplify: $1/8 \div 1/2 + 1/4$

- A. $1/16$
- B. $1/8$
- C. $1/6$
- D. $1/2$

Answer: D

Explanation:

Solution: USE PEDMAS (the same as PEMDAS) for the order of operations:

$$1/8 \div 1/2 + 1/4$$

First do multiplication and division:

Flip the divisor and multiply the fractions:

$$= 1/8 * 2/1 + 1/4$$

$$= 2/8 + 1/4$$

Next do addition:

$$= 1/4 + 1/4$$

$$= 2/4$$

$$= 1/2$$

Question: 2

Using the formula: $C = 5/9 \cdot (F - 32)$. How many degrees C is 95 degrees F?

- A. 35 degrees C
- B. 71 degrees C
- C. 139 degrees C
- D. 203 degrees C

Answer: A

Explanation:

Solution:

$$C = 5/9 \cdot (95 - 32)$$

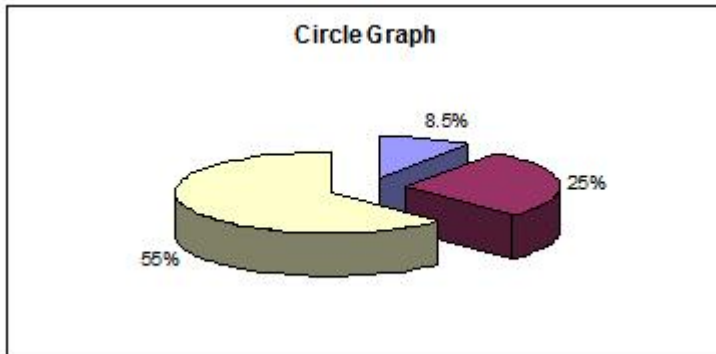
$$C = 5/9 \cdot (63)$$

$$C = 315/9$$

$$C = 35$$

Question: 3

In the circle graph above, in degrees what does the blue piece of the pie represent?



- A. 30
- B. 33
- C. 30.6
- D. 32.75

Answer: C

Explanation:

Solution:

There are 360 degrees in a circle.

$$.085 \cdot 360 = 30.6$$

Question: 4

You find a bedroom set at the local furniture store for \$1200. The red tag says 20% off. What is the sale price of the bedroom set?

- A. 240
- B. 950
- C. 960
- D. 720

Answer: C

Explanation:

To find the discount: $20\% \text{ of } \$1200 = 0.20 \cdot 1200 = \240

To find the sale price: $\$1200 - \$240 = \$960$

Question: 5

Change 35% to a decimal.

- A. 035.0
- B. .035
- C. 03.5
- D. 0.35

Answer: D

Explanation:

Solution:

$$35\% = 0.35$$

To change to a decimal you must move the decimal point to the left 2 places.

Question: 6

If you go on a trip and drive 40 miles (mi). How many kilometers (km) did you drive?

- A. 64.36
- B. 643.6
- C. 6436
- D. 0.6436

Answer: A

Explanation:

$$1 \text{ mi} = 1.609 \text{ km.}$$

$$\text{Solution:} = 40 \text{ mi} \bullet 1.609 \text{ km}$$

$$= 64.36 \text{ km}$$

Question: 7

Donna delivers for Pizza Hut. She drives each day 600 miles in 4 days. How far will Donna drive at this rate in 30 days?

- A. 450
- B. 4500
- C. 1200
- D. 4400

Answer: B

Explanation:

Solution:

$$d/30 = 600/4$$

$$d \cdot \frac{4}{4} = 30 \cdot \frac{600}{4}$$
$$d = \frac{18000}{4}$$
$$d = 4500$$

Question: 8

In the last 3 years there is an increasing number of women working in a higher position than men. 88 (women) to 25 (men). What is the ratio? Simplify if possible.

- A. $3 \frac{13}{25}$
- B. $\frac{88}{25}$
- C. $\frac{25}{88}$
- D. $\frac{75}{88}$

Answer: A

Explanation:

Solution:

$$\frac{88}{25} \text{ (divide 88 by 25)}$$
$$= 3 \frac{13}{25}$$

Question: 9

John purchased his train tickets for a sale price of \$150. The sale price reflects a reduction of \$50. What was the original price of the tickets?

- A. 200
- B. 150
- C. 100
- D. 175

Answer: A

Explanation:

Solution:

$$x - 50 = 150$$

(Add 50 to each side)

$$x = 200$$

Question: 10

Divide: $40 \div 8$

- A. 2
- B. 50

- C. 5
- D. 20

Answer: C

Explanation:

When you divide 40 by 8 = 5. To check $8 \cdot 5 = 40$

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