

APPLICATION

Example:

Jonah left home at 6:30 a.m to go to work. He arrives at work 7:15 a.m. At what time did he arrive at work?

Answer:

6:30 and time taken = 7:15

Let time taken to arrive to work be t

Equation: $6:30 + t = 7:15$

$$6:30 + t = 7:15$$

$$t = 7:15 - 6:30$$

$$t = 45 \text{ minutes}$$

Answer = Time taken is 45 minutes.

1. QUESTION

An elevator can hold a maximum of 520 kg. If the weight of 3 people in an elevator are as follows: 125 kg, 112 kg and 174 kg. What should be the maximum weight of the fourth person who enters the elevator?

Working:

$$125 + 112 + 174 + p = 520$$

$$p = \boxed{} - (\boxed{})$$

$$p = \boxed{} - \boxed{}$$

$$p = \boxed{}$$

2. QUESTION

If 30% of money is \$15. How much is 75% of my money?

Working:

30% of money (m) is \$15.

Equation:

$$\boxed{}\% \times \boxed{} = \$\boxed{}$$

$$m = \$\boxed{} \div \boxed{}$$

$$m = \$\boxed{}$$

Therefore:

$$75\% \text{ of } \$\boxed{} =$$

$$\boxed{} \times \$\boxed{} = \$\boxed{}$$

Answer = 75% of the money is \$ $\boxed{}$

3. QUESTION

Tommy needs 60 juice boxes for his daughter's birthday party. His daughter's godmother brought 10 boxes and his friend bought quarter of the boxes needed. How many boxes of juice are still needed?

Working:

b represents number of boxes of juices Tommy has to buy

quarter of the boxes is equal to $\boxed{} \div \boxed{} = \boxed{}$

Therefore the equation is:

$$10 + 15 + \boxed{} = \boxed{}$$

$$b = \boxed{} - (\boxed{})$$

$$b = \boxed{} - \boxed{}3$$

$$b = \boxed{}$$

Answer = $\boxed{}$ boxes of juice is needed.

4. QUESTION

When a number is divided by 15 the quotient is 23 with a remainder of 7. What is the number?

Working:

Let **n** be number

$$\begin{aligned} n - \boxed{} &\div \boxed{} = \boxed{} \\ n - \boxed{} &= \boxed{} \times \boxed{} \\ n &= \boxed{} + \boxed{} \\ n &= \boxed{} \end{aligned}$$

Answer = The unknown number is .

5. QUESTION

Molly shared 460 marbles, giving Ernie 106 more than both Chris and Dale. If Chris and Dale got the same number of marbles, how many marbles did Ernie get?

Working:

Let Chris and Dale get **m** marbles each.

Therefore:

$$\begin{aligned} \boxed{} + \boxed{} + (106 + \boxed{}) &= \boxed{} \\ \boxed{} + \boxed{} + \boxed{} &= \boxed{} - \boxed{} \\ 3 \times \boxed{} &= \boxed{} \\ m &= \boxed{} \div \boxed{} \\ m &= \boxed{} \end{aligned}$$

Answer: Ernie get marbles.

6. QUESTION

Ria wants to buy a tablet that costs \$890. She saved \$50, each week for 9 weeks. How many more weeks does she need to save to be able to afford the tablet?

○ **Working:**

Amount Ria already has = \$ x = \$

Let \$t be the balance of money Ria needs to buy the tablet.

Equation=

\$ = \$890

t = \$

t = \$

Weeks to save \$t

= ÷ = weeks

Answer = Ria need about weeks to save the balance to buy the tablet.