

FRACTIONS OF AMOUNTS

Task 1

1) What is $\frac{1}{2}$ of 20? **1**

2) What is $\frac{1}{3}$ of 27? **9**

3) What is $\frac{1}{4}$ of 36? **9**

4) What is $\frac{1}{8}$ of 64? **8**

5) What is $\frac{1}{10}$ of 50? **5**

13) What is $\frac{7}{10}$ of 70?

$$\frac{1}{10} \text{ of } 70 = 7$$

$$7 \times 7 = 49$$

14) What is $\frac{5}{6}$ of 72?

$$\frac{1}{6} \text{ of } 72 = 12$$

$$5 \times 12 = 60$$

15) What is $\frac{6}{10}$ of 90?

$$\frac{1}{10} \text{ of } 90 = 9$$

$$6 \times 9 = 54$$

Task 2

6) What is $\frac{2}{3}$ of 30?

$$\frac{1}{3} \text{ of } 30 = 10$$

$$2 \times 10 = 20$$

7) What is $\frac{3}{4}$ of 28?

$$\frac{1}{4} \text{ of } 28 = 7$$

$$3 \times 7 = 21$$

8) What is $\frac{5}{6}$ of 60?

$$\frac{1}{6} \text{ of } 60 = 10$$

$$5 \times 10 = 50$$

9) What is $\frac{2}{5}$ of 40?

$$\frac{1}{5} \text{ of } 40 = 8$$

$$2 \times 8 = 16$$

10) What is $\frac{6}{7}$ of 63?

$$\frac{1}{7} \text{ of } 63 = 9$$

$$6 \times 9 = 54$$

11) What is $\frac{4}{5}$ of 25?

$$\frac{1}{5} \text{ of } 25 = 5$$

$$4 \times 5 = 20$$

12) What is $\frac{5}{8}$ of 64?

$$\frac{1}{8} \text{ of } 64 = 8$$

$$5 \times 8 = 40$$

Task 3

16) $\frac{1}{3}$ of a number is 12. What is the number?

$$12 \times 3 = 36$$

17) $\frac{3}{4}$ of a number is 60. What is the number?

$$60 \div 3 = 20$$

$$4 \times 20 = 80$$

18) $\frac{2}{5}$ of a number is 18. What is the number?

$$18 \div 2 = 9$$

$$5 \times 9 = 45$$

19) A packet of sweets contains 60 sweets.

Alex eats $\frac{1}{3}$ of them and Jamie eats $\frac{1}{4}$ of the remainder. How many sweets does Jamie eat?

$$\text{Alex eats } \frac{1}{3} \text{ of } 60 = 20$$

$$\text{Remainder} = 40$$

$$\text{Jamie eats } \frac{1}{4} \text{ of } 40 = 10$$

20) A class of 40 students went on a trip. $\frac{4}{5}$ of them brought lunch from home. $\frac{1}{2}$ of the remaining students bought lunch at the venue. How many students bought lunch at the venue?

$$\frac{4}{5} \text{ of } 40 = 32$$

$$\text{Remaining} = 8$$

$$\frac{1}{2} \text{ of } 8 = 4$$

21) A shop sells 120 pens. $\frac{1}{3}$ are red, $\frac{1}{4}$ are blue, and the rest are black. How many pens are black?

$$\frac{1}{3} \text{ of } 120 = 40$$

$$\frac{1}{4} \text{ of } 120 = 30$$

$$\text{Red} + \text{blue} = 70$$

$$\text{Black} = 120 - 70 = 50$$

22) A farmer sells $\frac{3}{5}$ of his apples on Monday, and then $\frac{1}{2}$ of the remaining on Tuesday. If he started with 150 apples, how many does he have left after Tuesday?

$$\frac{3}{5} \text{ of } 150 = 90$$

$$\text{Remaining} = 150 - 90 = 60$$

$$\frac{1}{2} \text{ of } 60 = 30 \text{ sold on Tuesday}$$

$$\text{Apples left} = 60 - 30 = 30$$

23) There are 1,260 people at a theme park.

438 of them are adults.

387 of them are teenagers.

The rest are children.

$\frac{2}{3}$ of the children are girls.

Work out how many boys are at the theme park.

$$\text{Adults} + \text{Teenagers} = 438 + 387 = 825$$

$$\text{Children} = 1,260 - 825 = 435$$

$$\text{Girls} = \frac{2}{3} \text{ of } 435 = (435 \div 3) \times 2 = 290$$

$$\text{Boys} = 435 - 290 = 145 \text{ boys}$$

24) The normal price of a cinema ticket is £18.00.

Leila uses a student discount card that gives her $\frac{1}{4}$ off the ticket price. Work out how much Leila pays for her ticket.

$$\frac{1}{4} \text{ of } £18.00 = £18.00 \div 4 = £4.50$$

$$\text{Leila pays} = £18.00 - £4.50 = £13.50$$