

# 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?

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

$$7 \times 7 = \mathbf{49}$$

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

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

$$5 \times 12 = \mathbf{60}$$

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

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

$$6 \times 9 = \mathbf{54}$$

## Task 2

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

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

$$2 \times 10 = \mathbf{20}$$

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

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

$$3 \times 7 = \mathbf{21}$$

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

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

$$5 \times 10 = \mathbf{50}$$

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

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

$$2 \times 8 = \mathbf{16}$$

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

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

$$6 \times 9 = \mathbf{54}$$

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

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

$$4 \times 5 = \mathbf{20}$$

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

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

$$5 \times 8 = \mathbf{40}$$

## Task 3

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

$$12 \times 3 = \mathbf{36}$$

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

$$60 \div 3 = 20$$

$$4 \times 20 = \mathbf{80}$$

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

$$18 \div 2 = 9$$

$$5 \times 9 = \mathbf{45}$$

- 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?

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

$$\text{Remainder} = 40$$

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

- 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?

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

$$\text{Remaining} = 8$$

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

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.

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

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