



Finding the Whole from a Fraction of an Amount **Answers**

1. Calculate each of the following:

a. $56 \div 8$

7

e. 7×13

91

i. 2×19

38

b. $112 \div 4$

28

f. $120 \div 8$

15

j. 3×18

54

c. 15×3

45

g. $144 \div 12$

12

d. $63 \div 7$

9

h. $143 \div 11$

13

2. $\frac{1}{2}$ of a number is 8. What is the original number?

$8 \div \frac{1}{2} = 16$

7. $\frac{3}{7}$ of a number is 12. What is the original number?

$12 \div \frac{3}{7} = 28$

3. $\frac{1}{4}$ of a number is 5. What is the original number?

$5 \div \frac{1}{4} = 20$

8. $\frac{5}{8}$ of a number is 25. What is the original number?

$25 \div \frac{5}{8} = 40$

4. $\frac{1}{10}$ of a number is 3.6. What is the original number?

$3.6 \div \frac{1}{10} = 36$

9. $\frac{3}{5}$ of a number is 63. What is the original number?

$63 \div \frac{3}{5} = 105$

5. $\frac{1}{3}$ of a number is 9. What is the original number?

$9 \div \frac{1}{3} = 27$

10. $\frac{5}{6}$ of a number is 65. What is the original number?

$65 \div \frac{5}{6} = 78$

6. $\frac{2}{3}$ of a number is 20. What is the original number?

$20 \div \frac{2}{3} = 30$



11. A packet of crisps contains 4g of salt. $\frac{2}{28}$ of the mass of the packet is salt. Work out the mass of the packet of crisps.

$$4 \div \frac{2}{28} = 56\text{g}$$

12. There are red and blue counters in a bag.

$\frac{5}{6}$ of the counters are red.

There are 20 red counters in the bag.

Work out the total number of counters in the bag.

$$20 \div \frac{5}{6} = 24 \text{ counters in total}$$

13. The height of a sunflower increased by $\frac{5}{8}$ of its original height over five months. The sunflower grew 24cm by the end of the five months. Calculate the original height of the sunflower.

$$24 \div \frac{5}{8} = 38.4\text{cm}$$

14. A number increases by $\frac{1}{5}$ to 45. What is the original number?
15. A number increases by $\frac{2}{3}$ to 24. What is the original number?
16. A number decreases by $\frac{1}{4}$ to 42. What is the original number?

$$45 = \frac{6}{5}$$

$$45 \div \frac{6}{5} = 37.5$$

$$24 = \frac{5}{3}$$

$$24 \div \frac{5}{3} = 14.4$$

$$42 = \frac{3}{4}$$

$$42 \div \frac{3}{4} = 56$$

Challenge

$\frac{1}{3}$ of a number is 6. Work out $\frac{1}{2}$ of the number.

$$6 \div \frac{1}{3} = 18$$

$$\frac{1}{2} \text{ of } 18 = 9$$