



1 Change $\frac{37}{8}$ into a mixed number.

2 Calculate
 $43 - 78$

3 What is the probability of selecting an orange from a bowl containing 8 apples, 6 bananas, 4 pears and 10 oranges?

4 Calculate
 $\frac{4}{9}$ of 1602

5 Calculate the missing angle...

6 Evaluate
 $\sqrt[3]{1000}$

7 The perimeter of this shape is 206 m. Calculate the length of the missing side...

8 Calculate
 $0.39 - 2.7 + 6.085$

9 Calculate
 0.6×0.05

10 Calculate
 $\frac{5}{6} + \frac{2}{3}$

11 Simplify the following expression...
 $6z^2 - 5z + z^2 + 6z$

12 In a florist, all flowers cost the same. Max pays £5.81 for a bunch of 7 flowers for his mum for Mother's Day. How much would it cost for a bunch of 9?

13 If $a = 6$ and $b = -1$ calculate :-
 $\frac{3a - 2b}{4}$

14 Round
 3.141592654 to 3 decimal places.

15 In a dance display 3 dancers jump at the same time. Abbey then jumps every 4 seconds, Georgia every 6 seconds and Cari every 8 seconds. After how long will they all jump at the same time again?

16 Solve the equation...
 $9x - 5 = -23$

17 The population of Ireland is 4 773 000. Round this number to the nearest hundred thousand.

18 Express 250 as a product of prime factors

19 Write 4% as a fraction and a decimal.

20 What is the Highest Common Factor of 20, 40 and 56?

21 How many grams are in a $\frac{1}{4}$ kilogram pack of sugar?

22 How far did a 4×4 drive in 1 hr 45 mins at an average speed of 60 m.p.h.?

23 On a school trip, the ratio of teachers to pupils is 2 : 11. If there are 132 pupils, how many teachers are there?

24 Work out...
 $(-\frac{1}{2})^2$

25 Calculate 40% of £45

26 Calculate the length of this cuboid...

4 cm Volume 56 cm^3 2 cm

27 The body mass index, B , of a person who weighs w kilograms and whose height is h metres is given by the formula
 $B = \frac{w}{h^2}$
Calculate the value of B for a person who weighs 54 kilograms and is 1.5 metres tall.

28 Calculate the area of this composite shape...

29 Calculate the missing angles...

30 Select the prime number(s) from the following list...
111, 121, 131, 141, 151.

31 Write a rule and complete the table...

shelf size (S)	1	2	3	16	?
pieces of wood (W)	4	7	10	?	76