



1 Simplify the following expression...
 $4x^2 + 6x + x^2 - 5x$

2 Davie the joiner is sawing a 14 metre piece of wood. He makes a 7.4 metre cut followed by a 4.59 metre cut. How long is the remaining piece of wood?

3 Solve the following equation...
 $6x + 2 = 23 - x$

4 8 cans of cola cost £4.80. How much for 3 cans of cola?

5 How far did a man run in 42 mins at an average speed of 5 m.p.h.?

6 Calculate the area of this rhombus...

7 Calculate the area of this shape...

8 Calculate the gradient of the following ramp...

9 A fruit and veg stall was set up in a market. The ratio of tomatoes : cucumbers : onions on sale was 8 : 3 : 2. If there were 180 onions altogether how many vegetables in total were on sale?

10 Calculate $\frac{3}{8}$ of 536

11 Calculate 178×46

12 Increase \$450 by 30%

13 A bath can hold 90 litres of water. How many baths could be filled from 2379 litres of water?

14 Factorise the following expression...
 $36w - 60$

15 Hannah scored 92 out of 130 in her geography test. Calculate her percentage, rounding your answer to the nearest percent.

16 Calculate the length of the missing side...

17 If $p = 2$ and $q = -3$ calculate :-
 $5p - 4q$

18 Driver 1 has won 7 of his last 18 races. Driver 2 has won 9 of his last 24 races. Statistically, who is more likely to win the next race?

19 Calculate the perimeter of this shape...

20 Calculate $66\frac{2}{3}\%$ of 24

21 The mean cost of ten books is £21. Six of the books cost £15, two books cost £20 and one book costs £35. What is the cost of the tenth book?

22 Multiply out the following brackets and gather like terms...
 $4(2x + 3) - 2(x + 5)$

23 Calculate the surface area of this cylinder...

24 Calculate the size of the missing angle...

25 Exchange Rate:-
 £1 = €1.15
 Change €805 into pounds and pence.

26 Calculate the missing angle...

27 Calculate the length of the missing side...

28 Write a rule and complete the table...

desks (D)	1	2	3	16	?
people (P)	3	5	7	?	43

29 Which shop is offering the best deal?

Easy Electrics!
Everything Must Go!
25% Off All Marked Prices
£660

PC PLANET!
Closing Down Sale!
50% Off All Marked Prices
£960

30 Calculate the volume of this cuboid...

31 Calculate the missing angle...