RIGOUR

by cdmasterworks Ltd

Numeracy for Learning, Life and Work

November National Maths Calendar

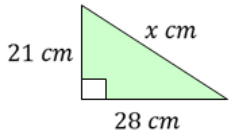
#abitofmathseveryday

1 A rocket flies 1768 kilometres in 3 hrs 24 mins.

What is it's average speed?

2 Neil is going on a 50 mile cycle at the weekend. He cycled 28·57 miles before he stopped for a short break. He then cycled a further 12·923 miles. How much further does he still have to cycle?

3 Calculate the length of the missing side...



4 Calculate

$\frac{7}{9}$ of 612

5 6 fireworks cost £16·20. How much for 11 fireworks?

6 Mick changed £150 into euros, receiving €162 for his money. His friend David changed £90 spending money into euros at the same exchange rate.
How many euros did David receive?

7 Kevin scored 19 out of 25 in his History test.

Calculate his percentage.

8 Factorise the following expression...

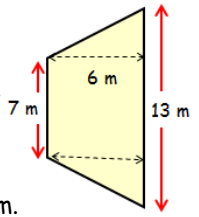
$12x - 30$

9 Decrease 78 kilograms by 10%

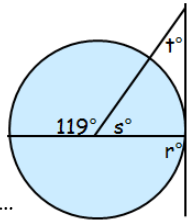
10 Simplify the following expression...

$7n^2 + 6n + n^2 - 9n$

11 Calculate the area of this trapezium.



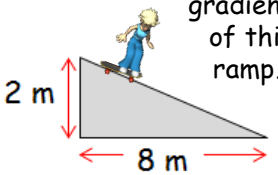
12 Calculate the size of angles r, s and t...



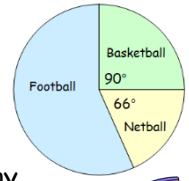
13 Calculate the median of the following data set...

4, -3, 5, -6, 1, -7

14 Calculate the gradient of this ramp...



15 480 children asked. How many preferred football?



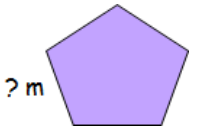
16 Calculate

60% of £25

17 Solve the following equation...

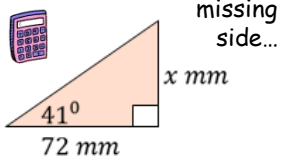
$7x - 12 = 3x - 4$

18 The perimeter of this regular pentagon is 30 m. Calculate the length of the missing side...

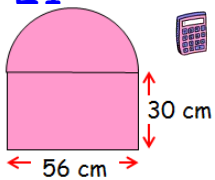


19 James bought 12 raffle tickets from a book with 150 tickets. Scott bought 30 raffle tickets from a book with 200 tickets. Who is more likely to win?

20 Calculate the length of the missing side...



21 Calculate the area of this ıape...



22 Slush Puppies are poured from a 80 litre Slushie machine. Each Slushie contains 330 ml. How many Slushies can be made from a full Slushie machine?

23 A standard roulette wheel is numbered 0-36. What is the probability that it will land on a red number?

24 Write a rule and complete the table...

rings (R)	1	2	3	9	?
diamonds (D)	5	8	11	?	71

25 Multiply out the following bracket and simplify...

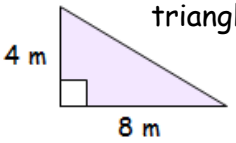
$9 - 3(x - 5)$

26 If $c = 4$ and $d = 6$ calculate :-

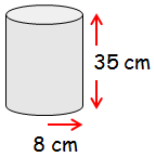
$3c - 2d$

27 Write $\frac{1}{8}$ as a decimal and a percentage.

28 Calculate the area of this triangle...



29 Calculate the surface area of this cylinder...



30 Calculate the size of the missing angle...