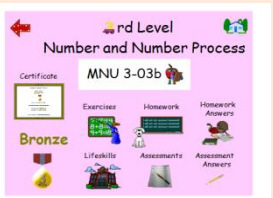
RIGOUR

by cdmasterworks Ltd

Numeracy for Learning, Life and Work



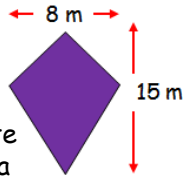
October National Maths Calendar

#abitofmathseveryday

1 Solve the following equation...

$5x - 9 = 2x + 12$

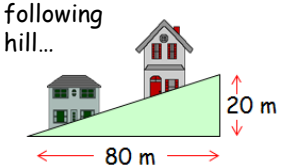
2 Calculate the area of this kite...



3 Simplify the following expression...

$7y^2 + 4y + y^2 - 5y$

4 Calculate the gradient of the following hill...

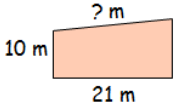


5 The Byrne's set out on a journey of 123 miles. They travel 37·78 miles and have a break. They then travel a further 60·295 miles. How much further do they have to travel?

6 Write $\frac{3}{4}$ as a decimal and a percentage.

7 How long did a train take to travel 192 miles at an average speed of 80 m.p.h?

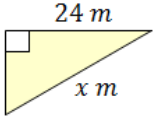
8 The perimeter of this shape is 66 m. Calculate the length of the missing side.



9 Decrease 35 metres by 20%

10 Calculate 80% of 35

11 Calculate the length of the missing side...

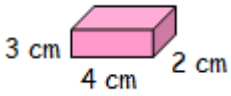


12 Change $451·50 into pounds

Exchange Rate:-
£1 = $1·29

13 Calculate $\frac{2}{3}$ of 111

14 Calculate the volume of this cuboid...



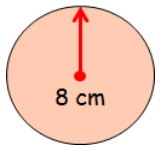
15 In a school there are 288 pupils and 12 teachers. What percentage of the school are teachers?

16 Factorise the following expression...

$3y + 24$

17 A group of 6 hill climbers take enough food to last a 4 day trip. Another 2 climbers join the group, but they do not bring food. How many days will the food now last this larger group?

18 Calculate the area of this circle...



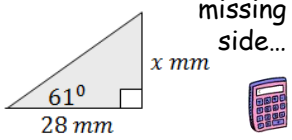
19 The mean age of four babies is 5 months. Three of the babies' ages are 2, 3 and 9 months. What is the age of the fourth baby?

20 Bus 1 has a 2 in 30 chance of arriving late. Bus 2 has a 8 in 50 chance of being late. Which bus is more likely to not arrive on time?

21 Solve the following inequality...

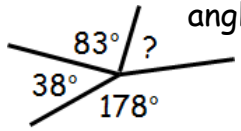
$9x + 7 < 61$

22 Calculate the length of the missing side...



23 3 scones cost £2·16. How much for 8 scones?

24 Calculate the missing angle...



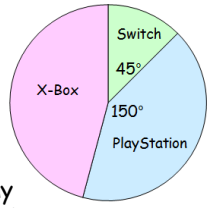
25 Multiply out the following brackets and gather like terms...

$2(4x + 1) - 3(x - 2)$

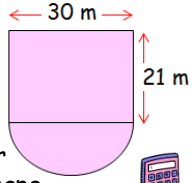
26 Write a rule and complete the table...

tables (T)	1	2	3	15	?
chairs (C)	3	5	7	?	79

27 408 children asked. How many preferred XBox?



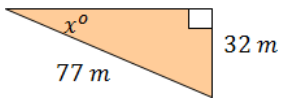
28 Calculate the perimeter of this shape...



29 If a = -1 and b = -2 calculate :-

$2a^2 + 7b$

30 Calculate the size of the missing side...



31 This witches hat is in the shape of a cone. It has a diameter of 20 cm and a height of 30 cm. Using π = 3·14 calculate it's volume.

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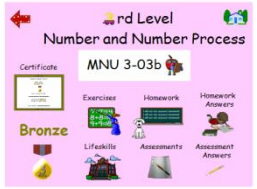

October National 4 Maths Calendar

#abitofmathseveryday

					1
2	3	4	5	6	7
8	9	10	11	12	13
14	15	16	17	18	19
20	21	22	23	24	25
26	27	28	29	30	31