Birthday Cakes - Homework

I am learning to use multiplication to find a whole set when we know the size of a part of it.

Remember, we solve problems like this by thinking about dividing and multiplying. e.g. $\frac{2}{9}$ of $\boxed{}$ = 12 12 ÷ 2 = 6, and 6 × 9 = 54. So $\boxed{}$ = 54

Warm up - Fill the boxes with the correct answers:



Finale - Write a mathematical sentence and solve these problems:

- 1) Eric and Nicole have received equal shares of a quiz prize. They each received \$26.50. How much was the total prize?
- 2) Anton, Hamish and James each sent an equal number of emails. If Anton and Hamish together sent 24, how many were sent all together?
- 3) Kirsten has been training for a marathon. When she has completed $\frac{3}{4}$ of

her daily run, she has completed 33km. How far is her total training run?

- 4) Three of the five children in the Miller family have received a total of 54 marks in a Maths test. If all five children receive the same mark, what is the total number of marks achieved?
- 5) Make up two word problems of your own, and write down the question and the answer.

AC
EA
AA
AM
AP

Birthday Cakes – Homework Sheet Answers

Warm up - Fill the boxes with the correct answers:

1)	$\frac{1}{2}$ of = 10	20	(5)	$\frac{1}{7}$ of = 4	28	(9)	$\frac{1}{12}$ of = 4	48	
2)	$\frac{1}{3}$ of = 7	21	(6)	$\frac{1}{8}$ of = 3	24	(10)	$\frac{1}{15}$ of = 3	45	
3)	$\frac{1}{4}$ of = 6	24	(7)	$\frac{1}{9}$ of = 2	18	(11)	$\frac{1}{18}$ of = 4	72	
4)	$\frac{1}{5}$ of = 5	25	(8)	$\frac{1}{10}$ of = 5	50	(12)	$\frac{1}{20}$ of = 7	140	
Step up:									
1)	$\frac{2}{3}$ of = 10	15	(5)	$\frac{3}{7}$ of = 15	35	(9)	$\frac{5}{8}$ of = 35	56	
2)	$\frac{3}{5}$ of = 12	20	(6)	$\frac{3}{4}$ of = 18	24	(10)	$\frac{7}{8}$ of = 56	64	
3)	$\frac{4}{5}$ of _ = 20	25	(7)	$\frac{2}{9}$ of = 8	36	(11)	$\frac{11}{12}$ of = 33	36	
4)	$\frac{2}{7}$ of = 6	21	(8)	$\frac{4}{9}$ of = 20	45	(12)	$\frac{13}{15}$ of = 39	45	
What about some larger numbers?									
1)	$\frac{2}{3}$ of = 40	60	(5)	$\frac{3}{7}$ of _ = 27	63	(9)	$\frac{5}{8}$ of = 35	56	
2)	$\frac{3}{5}$ of = 48	80	(6)	$\frac{3}{4}$ of = 33	44	(10)	$\frac{7}{8}$ of = 91	104	
3)	$\frac{4}{5}$ of = 28	35	(7)	$\frac{2}{9}$ of = 32	144	(11)	$\frac{11}{12}$ of = 77	84	
4)	$\frac{2}{7}$ of = 24	84	(8)	$\frac{4}{9}$ of = 56	126	(12)	$\frac{13}{15}$ of = 65	75	

Finale - Write a mathematical sentence and solve these problems:

- 6) Eric and Nicole have received equal shares of a guiz prize. They each received \$26.50. How much was the total prize? \$53
- 7) Anton, Hamish and James each sent an equal number of emails. If Anton and Hamish together sent 24, how many were sent all together? 36
- 8) Kirsten has been training for a marathon. When she has completed $\frac{3}{4}$ of

her daily run, she has completed 33km. How far is her total training run? 44km

- 9) Three of the five children in the Miller family have received a total of 54 marks in a Maths test. If all five children receive the same mark, what is the total number of marks achieved? 90
- 10) Make up two word problems of your own, and write down the question and the answer.