

# ONE-WEEK HOLIDAY CHALLENGE (F)

HOW MANY CAN YOU DO? ... HOW MANY WILL YOU DO?

DAY 1	DAY 2	DAY 3	DAY 4	DAY 5	DAY 6	DAY 7
What is 56 written as a <b>PRODUCT</b> of prime factors?	What is 0.07 written as a <b>PERCENTAGE</b> ?	I travel at 60 mph. How far will I travel in 1 hour 15 minutes?	<b>Simplify:</b> $4m^2 + 4m^2$	What is one third off £24?	Write IIII in standard form	Write these numbers in size order: -5 6 1 -4 2 -9
Calculate $5^3$	What is 50% of £95?	What is "sixty percent" off <b>£12</b> ?	what is 150,000 <b>LESS</b> than 5 million?	<b>Calculate:</b> $\frac{1}{2} \times \frac{1}{4}$	<b>CALCULATE</b> 12.5% of 180	Write 0.1111 in standard form
What is : $1650 \div 5$ ?	What is $2^0$ ?	What is 0.3 as a percentage?	What is 45% written as a fraction?	<b>WITHOUT</b> a calculator: $216 \div 12$	<b>Calculate:</b> $133.2 \div 1.2$	<b>Work out</b> 15% of £320
<b>SOLVE:</b> $4x - 3 = 21$	How many <b>MINUTES</b> in 3 and a half hours?	Calculate $(-2)^2$	What is 225% of 84?	What is $\frac{3}{5}$ written as a <b>PERCENTAGE</b> ?	In a bag there are 15 red beads and 13 blue beads. What fraction of the beads are red?	<b>Calculate:</b> $\frac{3}{4} - \frac{2}{5}$
<b>Simplify</b> $5 \times a \times 6 \times b$	Without a calculator $13 \times 127$	Using the digits <b>6 2 5 7</b> what is the <b>smallest</b> even number that can be made	<b>Simplify:</b> $2a^2b \times 3ab^2$	List all the <b>factors</b> of 40	<b>Expand and simplify</b> $3(x - 2) + 2(2x + 5)$	Change 5400 grams into kilograms
Share <b>£180</b> in the ratio 1:3:5	What is $13.95 + 0.4$ ?	Solve $\frac{x}{5} = 2.5$	Round 124.7735 to 1 significant figure	<b>Simplify:</b> $x^2 \div x^4$	What is the midpoint between -2 and 5?	<b>Expand and simplify</b> $(x - 2)(x - 4)$
Write $3.074 \times 10^3$ as an <b>ORDINARY</b> number	What is the volume of a cuboid with sides 10cm, 15cm and 8cm?	What is $4.52 \times 136$ ?	Without a calculator <b>work out</b> $544.7 \times 12.3$	Round 405.195865 to 4 decimal places	<b>Simplify:</b> $x^{3.5} \div x^7$	What is $-3 - (-8)$ ?
A number is rounded to 6.4 which is 1 decimal place. What is the error interval?	Write $16 \times 10^5$ in <b>STANDARD FORM</b>	There are 7 blue pens, 3 green pens and 2 red pens. What <b>fraction</b> of the pens are NOT red?	A film starts at 19:25 - It was 94 mins long. What time does it finish?	What is $0.2 \times 15$ ?	x is rounded to 3.7 which is 1 decimal place. What is the <b>ERROR</b> <b>INTERVAL</b> ?	<b>Simplify:</b> $(x^5)^3$
List the first 5 <b>SQUARE</b> numbers	<b>Factorise</b> $4xy + 10x$	<b>Change</b> 370 cm into metres	A letter is chosen from the word: <b>PROBABILITY</b> What is the probability of choosing the letter "B"?	<b>Simplify:</b> $3 \times g \times h \times x^7$	$\frac{3}{4}$ of a number is 60. What is the number?	<b>TRUE OR FALSE?</b> When you subtract a number from 10, the answer will always be less than 10
The probability it will snow tomorrow is 0.05. What is the probability it won't snow?	Write 8:48 pm as a 24 hour <b>clock</b> time	What is the <b>product</b> of 4 and 9?	If I travel at 40mph. How <b>LONG</b> will it take me to travel 10 miles?	Change 0.7 into a fraction	<b>Solve:</b> $6x - 15 = 15$	Two pens cost 90p. How much will 5 pens cost?

I have tried to ensure the answers are correct  
 BUT ... you know how it is!! If you find any  
 mistakes email me: mel@justmaths.co.uk

# ANSWERS

DAY 1	DAY 2	DAY 3	DAY 4	DAY 5	DAY 6	DAY 7
$2^3 \times 7$	7	75 miles	$8m^2$	£16	$1.111 \times 10^3$	-9 -5 -4 1 2 6
125	£47.50	£4.80	4850000	$\frac{1}{8}$	22.5	$1.111 \times 10^{-1}$
330	1	30%	$\frac{45}{100}$ or $\frac{9}{20}$	18	111	£48
6	210 minutes	4	£18.90	60	$\frac{15}{28}$	$\frac{7}{20}$
30ab	1651	2576	$6a^3b^3$	1 2 4 5 8 10 20 40	$7x + 4$	5.4
£20:£60:£100	14.35	12.5	100	$x^{-2}$	1.5	$x^2 - 6x + 8$
3074	1200	614.72	6699.81	405.1959	$x^{-3.5}$	5
$6.35 \leq x < 6.45$	$1.6 \times 10^6$	$\frac{10}{12}$	20:59	3	$3.65 \leq x < 3.75$	$x^{-15}$
1 4 9 16 25	$2x(2y + 5)$	3.7m	$\frac{2}{11}$	21gh	80	FALSE
0.95	20:48	36	15	$\frac{70}{100}$ or $\frac{35}{50}$ or $\frac{7}{10}$ or $\frac{14}{20}$	5	£2.25