

# 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 180 written as a <b>PRODUCT</b> of prime factors?	<b>SIMPLIFY</b> .. $q + q + q + r \times r$	Estimate the cost of 19 bags of sweets that cost £1.94 each	<b>Simplify:</b> $7x^3 + x^3$	Write $2^6 \times 2^3$ as a single power of 2	Write 0.0005071 in standard form	Angles in a triangle add up to -----
What is.. ${}_3\sqrt{27}$	Share £84 in the ratio 1:5	What is "75%" off £18?	what is 150,000 <b>LESS</b> than 3 million written in standard form?	<b>Calculate:</b> $\frac{8}{5} \times \frac{7}{12}$	<b>CALCULATE</b> 1.25% of £200	Write as a recurring decimal ... $\frac{1}{6}$
A:B is 2:5 and B:C is 3:1. What is A:C?	What is $27^0$ ?	what is the LCM of 12, 14 and 21?	Simplify ... $4t + 6s - 5t + 2s + 3$	<b>WITHOUT</b> a calculator: $(2 \times 10^3) \times (6 \times 10^5)$	<b>Calculate:</b> $36.6 \div 1.2$	<b>Work out</b> $(2.8 \times 10^4) + (6.5 \times 10^3)$
<b>SOLVE:</b> $7 + 3x = 22$	How many <b>CM</b> in 3.5 <b>METRES</b> ?	Calculate $(-2)^3$	What is 225% of 120?	What is 0.09 written as a <b>PERCENTAGE</b> ?	If a car travels 93 miles in 1.5 hours. What is its speed?	Calculate: $3\frac{5}{6} - 2\frac{2}{5}$
<b>Simplify</b> $3 \times e \times 8 \times f$	Angles on a straight line add up to -----	Using the digits <b>3 4 8 2</b> what is the <b>smallest</b> even number that can be made	<b>Simplify:</b> $5ab \times 2ab^2$	What is the highest common factor of 36 and 84?	What is the sum of the 3rd prime number and the 2nd square number?	Change 3.2 kilograms into grams
It takes 4 men 8 days to build a wall. How long will it take 6 men?	What is $27.09 - 0.6$ ?	Solve $\frac{x}{4} = 3.5$	Round 0.007735 to 1 significant figure	<b>Simplify:</b> $2^2 \div 2^5$	What is the midpoint between -9 and -1?	Expand <del>and</del> <b>simplify</b> $(3x + 2)(x - 4)$
Write $27 \times 10^3$ in <b>STANDARD FORM</b>	$v = u + at$ What is v when u = 5, a = 0.5 and t = 12?	What is $0.6 \times 10.2$ ?	Convert $4m^2$ to $cm^2$	What are the next two terms 3 10 17 24	<b>Simplify:</b> $x^{0.2} \div x^{3.5}$	What is $-3 \times (-8)$ ?
Decrease £800 by 34%	<b>Expand</b> $-4(3y - 2)$	There are 3 blue pens and 1 red pen. What <b>fraction</b> of the pens are red?	A film <b>finished</b> at 21:23 - It was 104 mins long. What time did it start?	What is $0.2 \times 0.3$ ?	x is rounded to 6.4 which is 1 decimal place. What is the <b>ERROR INTERVAL</b> ?	<b>Simplify:</b> $(2x^{-3})^2$
List all the <b>PRIME</b> number between 10 and 20	<b>Factorise</b> $5x^2y + 10y$	What is the $n$ th term rule: 1 4 9 16 64	A letter is chosen from the word: <b>PROBABILITY</b> What is the probability of choosing the letter 'x'?	<b>Expand &amp; Simplify:</b> $4(x + 4) - 3(2 + x)$	$\frac{2}{5}$ of a number is 16. What is the number?	<b>SOLVE:</b> $43 = 8 + 7x$
Which is greater $57\%$ or $\frac{5}{9}$	Write 9:37 pm as a 24 hour <b>clock</b> time	What number is halfway between 46 and 98?	Angles in a quadrilateral add up to -----	Change 0.07 into a fraction	<b>Solve:</b> $35 = 15 - 2x$	$14 \times 30 = 2 \times ?$

