Year 7 information evening.

Mathematics.

AIMS

- We aim to develop our students' confidence and competence in using Mathematical skills and techniques.

- We also seek to develop students' logical thinking as they apply mathematical facts and communicate their reasoning.

- We want students to recognise the importance of mathematics in their own lives and in society.

- Students are encouraged to apply their mathematical skills to a variety of problems with increasing complexity, illustrating resilience and perseverance.

Year 7

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn term	Algebraic thinking **Sequences** FREE TRIAL VIEW		Algebraic thinking **Understand & use algebraic notation** VIEW		Algebraic thinking **Equality & equivalence** VIEW		Place value & proportion **Place value & ordering integers & decimals** VIEW			Place value & proportion **Fraction, decimal & percentage equivalence** VIEW		
Spring term	Applications of number **Solving problems with addition & subtraction** VIEW		Applications of number **Solving problems with multiplication & division** VIEW			Fractions & percentages of amounts VIEW	Directed number **Operations & equations with directed number** VIEW			Fractional thinking **Addition & subtraction of fractions** VIEW		
Summer term	Lines & angles **Constructing, measuring & using geometric notation** VIEW			Lines & angles **Developing geometric reasoning** VIEW			Reasoning with number **Developing number sense** VIEW		Reasoning with number **Sets & probability** VIEW		Reasoning with number **Prime numbers & proof** VIEW	

Year 8

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn term	Proportional reasoning **Ratio & scale** FREE TRIAL VIEW		Proportional reasoning **Multiplicative change** VIEW		Proportional reasoning **Multiplying and dividing fractions** VIEW		Representations **Working in the Cartesian plane** VIEW			Representations **Representing data** VIEW		Representations **Tables & Probability** VIEW
Spring term	Algebraic techniques **Brackets, equations & inequalities** VIEW				Algebraic techniques **Sequences** VIEW	Algebraic techniques **Indices** VIEW	Developing Number **Fractions & percentages** VIEW			Developing Number **Standard index form** VIEW		Developing Number **Number sense** VIEW
Summer term	Developing geometry **Angles in parallel lines & polygons** VIEW		Developing geometry **Area of trapezia & circles** VIEW		Developing geometry **Line symmetry & reflection** VIEW		Reasoning with data **The data handling cycle** VIEW				Reasoning with data **Measures of location** VIEW	

Year 7
Unit tracker

Year 7 – Mathematics – unit 5

Big Question – Can I convert fluently between fractions, decimals and percentages?

Knowledge / Skills	Opportunity for assessment & feedback (RAG)	Gaps
Convert fractions & decimals (tenths & hundredths)	Key question Classwork Diagnostic questioning Summative assess.	
Convert fractions & decimals (fifths & quarters)	Key question Classwork Diagnostic questioning Summative assess.	
Convert fractions & decimals (eighths & thousandths)	Key question Classwork Diagnostic questioning Summative assess.	
Identify equivalent fractions	Key question Classwork Diagnostic questioning Summative assess.	
Convert fluently between FDP	Key question Classwork Diagnostic questioning Summative assess.	
Big Question Task	**E S W**	

Summarise your next steps to improve or build on the knowledge gained in this unit:

_____

_____

_____

_____

Year 7 unit test

Name: _____   Date: _____

Year 7 – Mathematics – Unit 8

Big Question – Can I find fractions and percentages of an amount?

1. Work out the calculations. You may use the bar models to help you.

(a) $\frac{1}{2}$ of 80

(1 mark)

(b) $\frac{2}{5}$ of 45

(2 marks)

(c) $\frac{5}{6}$ of 42

(2 marks)

2. (a) Dexter is thinking of a number.
      One fifth of Dexter's number is 12. What number is Dexter thinking of?

(1 mark)

(b) Alex is also thinking of a number.
      Three quarters of Alex's number is 6. What number is Alex thinking of?

(2 mark)

4. Calculate 7% of 340

(2 mark)

5. (a) Work out

150% of 70

(1 mark)

(b) Work out

$\frac{17}{5}$ of 30

(1 mark)

	Forename		ESW	find a fraction of an	Use a given fraction	Find a percentage of	Find a percentage of	Solve problems with	ESW	add and subtract dir	Multiply directed nu	Evaluate algebraic e	Use order of operati	Roots of positive nu	ESW	convert between mi	add and subtract fra	Add and subtract fra	add and subtract imp	Use fractions in alge	ESW
99	Keeley			G	G	A	A	R	S	G	A	A	G	A	S	G	G	A	A	R	S
100	Eleanor			G	G	R	G	A	S	R	G	G	R	R	S	G	A	R	R	R	W
101	Daniela			G	G	G	G	G	E	G	G	G	G	R	S	G	G	G	A	G	S
102	Ava			G	A	R	A	A	W	G	G	A	A	R	S	G	G	G	G	G	S
103	Allyssa-Rose			G	A	A	G	G	W	G	G	A	A	G	W	G	G	G	A	A	S
104	Finley									R	G	A	A	R	S	A	G	G	G	G	S
105	Ethan			G	G	G	R	G	S	A	G	R	G	A	S	G	G	G	G	A	S
106	Jesse			G	R	G	G	G	S	A	G	A	A	R	W	R	G	R	R	G	W
107	Connie			G	G	G	G	G	S	A	G	G	A	A	W	G	G	A	A	R	W
108	Neve			G	G	G	A	G	S	G	A	G	A	A	S	G	G	G	G	A	S
109	Jake			G	G	R	G	G	S	G	G	A	A	A	S	G	G	G	G	G	S
110	Lillian			G	A	A	A	G	S	G	G	G	A	A	S	G	G	G	A	R	S
111	Charlie			G	G	G	G	G	E	A	G	A	A	A	S	G	G	G	G	G	S
112	Erin			G	G	A	R	A	S	R	G	G	A	R	S	G	G	G	A	R	S
113	Fabricjo			A	A	A	G	G	S	A	G	G	A	R	S	G	G	G	A	R	S
114	Isabelle			G	G	G	G	G	E	A	G	G	A	A	S	G	G	G	G	R	S
115	Kathleen			A	A	R	R	A	W	G	G	G	A	A	S	G	G	G	A	R	S
116	Zakhir			G	R	G	G	G	S	G	A	G	G	R	S	G	G	G	A	G	S
117	Noah			G	G	A	A	R	S	G	G	G	G	A	S	Abs	Abs	Abs	Abs	Abs	
118	Joseph			G	A	A	G	G	S	G	G	A	G	A	S	Abs	Abs	Abs	Abs	Abs	
119	Lucas			G	G	G	G	G	E	G	G	A	A	R	S	G	G	G	A	G	S

We recommend Casio fx-83 GTCW.

£9.00
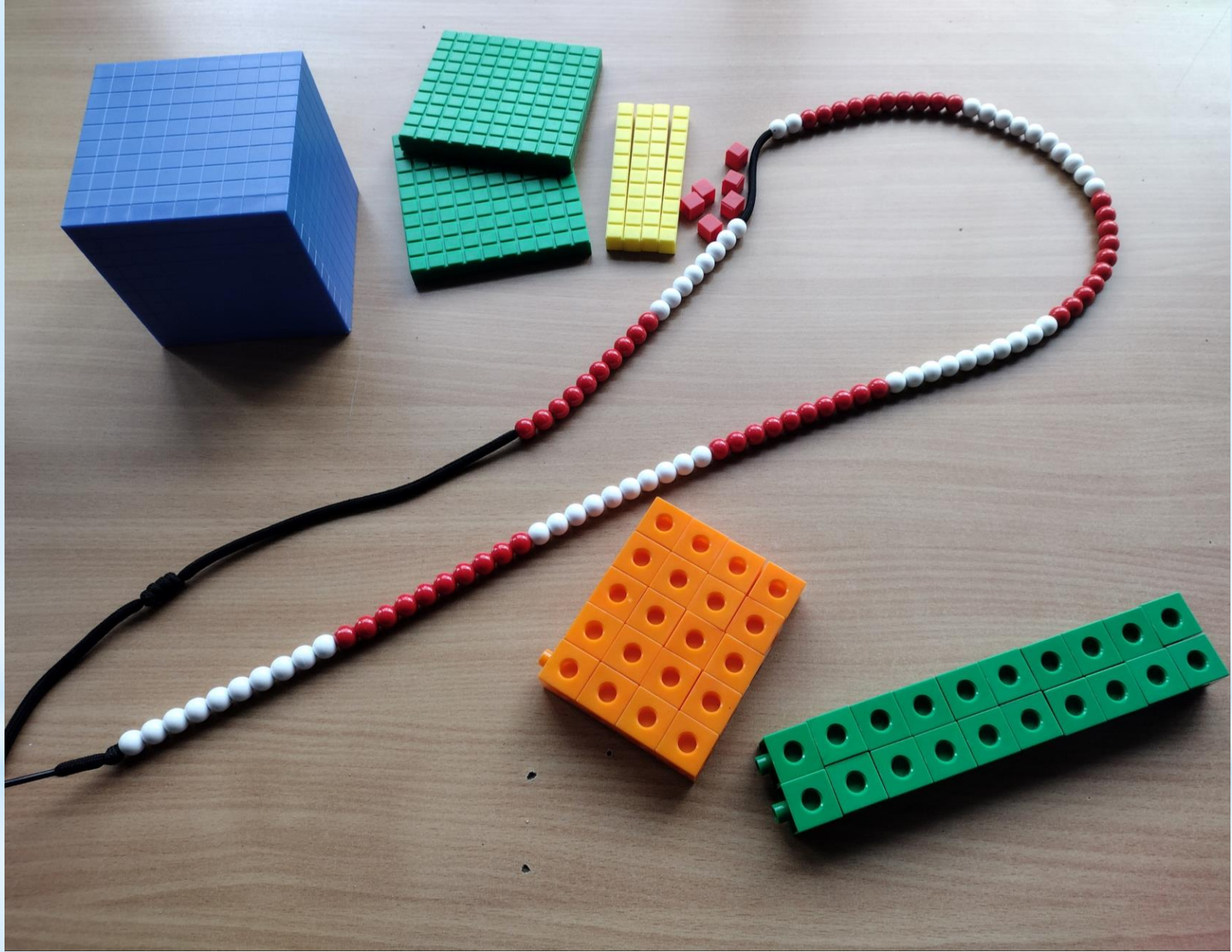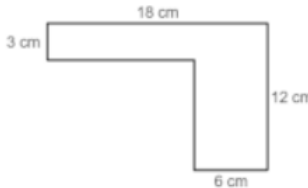
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KS3/4 → Shape, Space & Measures → Area & Perimeter
dfm **K116:** Find the perimeter of a composite rectilinear shape.

▶ Watch a worked example

Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Exit

Find the perimeter of the shape below.

18 cm
3 cm
12 cm
6 cm
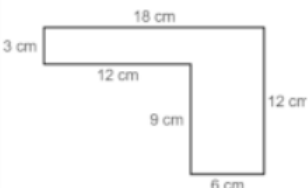
✏ Perimeter = 60 cm

You can optionally leave a comment for your teacher about this question/your answer. Press Alt+Equals to insert mathematical expressions.
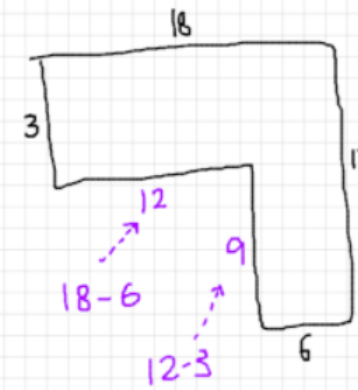
Send

✓ Correct

The answer is Perimeter = 60 cm

The perimeter is the total length around the outside of the shape.

18 cm
3 cm
12 cm
9 cm
12 cm
6 cm

Perimeter $= 12 + 6 + 9 + 12 + 3 + 18$
$= 60$ cm

What you can do to help:

- Encourage your child to seek out their maths teacher if they are struggling with work in class.

8) 147 x 23

$$
\begin{array}{r}
147 \\
\times\ 23 \\
\hline
14\ 24\ 1 \\
19\ 440 \\
\hline
3\ 3\ 81 \\
\end{array}
$$

3381 ✓

147 × 23

X	100	40	7		
20	2000	800	140	⇒	2940
3	300	120	21	⇒	441

3381

2) 53 x 28 = 1484 ✓

484