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Big Picture

Knowledge Organiser

Week 1: Place Value

- **L1: Understand and use place value for decimals, measures and integers of any size**

Demonstration Videos:

<https://corbettmathsprimary.com/2018/07/21/words-and-figures-video/>

<https://corbettmathsprimary.com/2018/07/31/place-value-video/>

<https://corbettmaths.com/2013/03/29/place-value/>

Tasks:

Write the numbers on the right as figures and cross off the answers in the grid. Put the answers that are left over into the boxes at the bottom and find the total.

Name

Words to figures


3002	3203	23000	203	3032	Three hundred and twenty	Two thousand, two hundred and twenty three	Three thousand, two hundred and three	Three hundred and twenty thousand and twenty three
2303	230	2302	320320	320023	Twenty three thousand	Two hundred and thirty	Twenty thousand, three hundred	Two thousand, three hundred and two
300200	320	2023	2030	2203	Thirty thousand, two hundred	Three hundred and twenty thousand, three hundred and twenty	two hundred and twenty three	Two thousand, two hundred and three
30200	233	223	3203	20300	Two thousand, three hundred and three	Three hundred and two	Two thousand and twenty three	Three hundred thousand and two hundred
302	2303	2223	2003	2002	Three thousand and two	Three thousand, two hundred and three	Two thousand and three	Two hundred and three


TOTAL

Concept Corner

The position of each digit in a number tells you about its value.

Thousands	Hundreds	Tens	Ones
4	7	3	2

This star indicates that a question is more challenging. 

Two stars indicate that a question is especially challenging! 

The number above in words is

.....

Write the number two thousand and ninety-six in the empty row.

1. Fill in the spaces below:

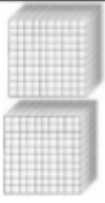
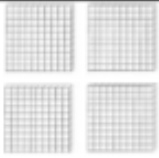


In the number 2708

The digitis in the **thousands** place.

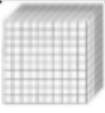
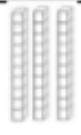

The digit 7 is in the place.

The digit 0 is in the place.

2. Write the number shown in each place value table in figures:

Thousands	Hundreds	Tens	Ones
			

This number is

Thousands	Hundreds	Tens	Ones
			

This number is

3. Write the number shown in each place value table in words:

Thousands	Hundreds	Tens	Ones
3	0	8	1

This number is

Ten thousands	Thousands	Hundreds	Tens	Ones
8	5	0	3	0

This number is



Fill in the missing place value headings and then write the number in words.

		Ten thousands			Tens	Ones
3	2	5	0	1	0	2

This number is

Question 1: Write down the value of underlined digit in each of the numbers below

- | | | | |
|--------------------|------------|--------------------|-------------------------|
| (a) 548 | (b) 202 | (c) 623 | (d) 3841 |
| (e) 87 <u>9</u> 02 | (f) 48213 | (g) 3 <u>9</u> 154 | (h) 24 <u>1</u> 03 |
| (i) 294875 | (j) 940000 | (k) 2500000 | (l) 49 <u>7</u> 0000000 |
| (m) 0.53 | (n) 0.27 | (o) 1.395 | (p) 29.4 <u>8</u> 27 |

5.

a) What number is:

- 10 more than 2900
- 100 less than 2000
- 1 more than 6900
- 1 less than 500
- 10 less than 7800

b) What number is:

- Three tens more than 2400
- Two hundreds less than 3600
- Eight ones more than 300
- Five hundreds less than 5300
- Seven tens more than 7842

c) How many tens less than 4970 is 4930?

.....

d) How many hundreds more than 5302 is 5702?


.....

 e) How many tens less than 4000 is 1390?

.....

 f) How many tens more than 50 170 is 53 290?

.....

 g) How many hundreds less than 234 000 is 22 000?

.....

Using all four number cards below:



a) What is the **largest** number you can make?

.....

b) What is the largest **even** number you can make?

.....

c) What is the **smallest** number you can make?

.....

d) What is the smallest **even** number you can make?

.....

: Here are four digits



(a) Put one digit in each box to make the smallest possible total.

$$\square \square + \square \square$$

(b) Write down the total

(c) Put one digit in each box to make the largest possible total.

$$\square \square + \square \square$$

(d) Write down the total



Challenge:

Write down the value of the underline figure

52.34

Write down the value of the underline figure

502.4

Write down the value of the underline figure

1.203

Write down the value of the underline figure

20.034

SPOT the MISTAKE!

The underlined digits in each decimal have been converted to a fraction.

Can you find the mistakes?

Correct them when you do!

1

Week 2: Ordering Integers and Decimals

- LI: Order positive integers and decimals; use the number line as a model for ordering integers and decimals; use the symbols =, ≠, <, >, ≤, ≥

Demonstration Videos:

<https://corbettmathsprimary.com/2018/07/20/inequality-signs-video/>
<https://corbettmathsprimary.com/2018/07/18/ordering-numbers-video/>
<https://corbettmathsprimary.com/2018/07/16/ordering-decimals-video/>

Put these decimals in ascending order.
 increasing

2.68 2.957 2.62

Starting with the most valuable column, compare digits until you find the lowest number.

2nd lowest ~~2~~ . 6 ~~8~~ 0
 2 . 9 5 7
 lowest ~~2~~ . ~~6~~ 2 0

2.62, 2.68, 2.957

Put these decimals in ascending order.

4.507 4.49 4.51

2nd lowest ~~4~~ . ~~5~~ 0 ~~7~~
 lowest ~~4~~ . 4 ~~9~~ 0
 4 . 5 1 0

4.49, 4.507, 4.51

Tasks:

Name

555	603	510	890	505
876	225	501	515	111
630	252	687	889	202
708	980	202	205	988
255	807	360	110	363

Which is the smallest value
780, 708, 807

Which is the largest value
252, 202, 225

Which is the smallest value
225, 205, 255

Which is the smallest value
687, 768, 876

Which is the largest value
555, 505, 515

Which is the smallest value
252, 202, 225

Which is the smallest value
889, 988, 898

Which is the largest value
890, 980, 899

Which is the largest value
889, 988, 898

Which is the largest value
510, 501, 515

Which is the largest value
101, 111, 110

Which is the largest value
630, 360, 603

Which is the smallest value
890, 980, 899

Which is the smallest value
510, 501, 515

Which is the largest value
360, 306, 363

Ordering numbers up to 1000

Which is the largest value
225, 205, 255

Which is the smallest value
555, 505, 515

Which is the largest value
687, 768, 876

Which is the smallest value
630, 360, 603

Which is the largest value
780, 708, 807

TOTAL

Question 5: Arrange in order from smallest to largest

(a) 7, 5, 9, 12, 2

(b) 13, 20, 9, 12, 14, 6

(c) 70, 80, 20, 30, 90, 10

(d) 73, 28, 45, 38, 90, 21

(e) 130, 190, 210, 70, 300

(f) 605, 66, 566, 655, 506, 65, 555

(g) 2000, 385, 8100, 2800, 888, 400

Question 6: Place the correct sign, < or >, between the following pairs of numbers

(a) 3 1

(b) 2 7

(c) 8 5

(d) 28 21

(e) 110 113

(f) 102 99

(g) -3 2

(h) 4 -1

(i) -12 -9

2.

Write the correct sign > or < in each box

1,098 1,100

6,821 6,812

9,999 10,000

3.

Show if each statement is right (✓) or wrong (✗)

81 83 Right or Wrong

112 110

148 149



Ordering Decimals

Which two numbers have been put into the place value table below?

Units	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$
2	5	7	0
2	4	8	1

How can we use the table to find the greatest number?

Greatest =

For each pair of numbers below, complete the place value table & use it to find the greatest number.

5.493 & 5.506

Units	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$
5	4	9	3

Greatest =

3.52 & 3.361

Units	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$

Greatest =

4.405 & 4.45

Greatest =

7.761 & 7.76

Greatest =

8.204 & 8.402 & 8.39

Greatest =

0.76 & 0.607 & 0.706

Greatest =

Circle the greatest number in each set of numbers.

a) 2.5, 5.12, 12.5

b) 5.25, 5.205, 2.5

c) 7.6, 6.76, 7.66

d) 3.4, 4.03, 0.43, 4.3

e) 0.98, 0.809, 0.998, 0.898

f) 4.056, 4.605, 4.560, 4.650,

g) 1.202, 1.192, 1.2, 1.129

h) 12.546, 12.654, 12.56, 12.4, 12.564

Name _____

Ordering decimals

0.89	0.32	0.11	0.11	0.101	Which is the smallest? 0.701, 0.7, 0.699	Which is the largest? 0.101, 0.1, 0.01	Which is the largest? 0.1, 0.11, 0.101	Which is the smallest? 0.2, 0.11, 0.102
0.102	0.6	0.8	0.5	0.05	Which is the largest? 0.9, 0.91, 0.904	Which is the largest? 0.34, 0.304, 0.32	Which is the largest? 0.62, 0.602, 0.6	Which is the smallest? 0.6, 0.62, 0.606
0.41	0.62	0.4	0.41	0.602	Which is the largest? 0.02, 0.01, 0.015	Which is the smallest? 0.41, 0.5, 0.49	Which is the largest? 0.05, 0.02, 0.041	Which is the smallest? 0.4, 0.41, 0.401
0.34	0.49	0.9	0.904	0.1	Which is the smallest? 0.8, 0.801, 0.87	Which is the smallest? 0.89, 0.9, 0.901	Which is the smallest? 0.5, 0.501, 0.51	Which is the smallest? 0.602, 0.7, 0.71
0.02	0.91	0.49	0.699	0.9	Which is the smallest? 0.32, 0.34, 0.321	Which is the largest? 0.49, 0.409, 0.904	Which is the largest? 0.9, 0.89, 0.809	Which is the largest? 0.1, 0.05, 0.019

TOTAL



Challenge:

DIGIT Puzzle

How many ways can you complete this ordered list of decimals?

0. , 0. , 0. , 0. , 0.


 smallest largest

-  Use any digits
-  Use digits only once

What are the largest & smallest decimals you can use?

Week 3: Addition and Subtraction

- LI: Use addition and subtraction, applied to positive integers and decimals

Demonstration Videos:

<https://corbettmathsprimary.com/2018/05/30/addition-video/>

<https://corbettmathsprimary.com/2018/05/30/subtraction-video/>

Tasks:

1. Fill in the empty boxes in each calculation:

$$7 + 6 = \square$$

$$\square + 12 = 33$$

$$13 + \square = 20$$

$$\square + \square + \square = 20$$

2. Fill in the gaps in the calculations below:

$5 + 3 = \dots\dots\dots$

$7 + 6 = \dots\dots\dots$

$75 + \dots\dots\dots = 100$

$\dots\dots\dots + 3 = 18$

$8 + 6 = \dots\dots\dots$

$\dots\dots\dots + 61 = 100$

$5 + \dots\dots\dots = 18$

$\dots\dots\dots + 6 = 15$

$55 + \dots\dots\dots = 100$

$15 + 13 = \dots\dots\dots$

$11 + 6 = \dots\dots\dots$

$33 + \dots\dots\dots = 100$

3. Fill in the gaps below using each of the digits 1, 3, 5 and 7 to make the calculations correct:

$$\dots\dots \dots + \dots\dots \dots = 52$$

$$\dots\dots \dots + \dots\dots \dots = 106$$

$$\dots\dots \dots + \dots\dots \dots = 88$$

$$\dots\dots \dots + \dots\dots \dots = 124$$

4. Fill in the empty boxes in each calculation:

$$13 - 8 = \square$$

$$26 - \square = 15$$

$$20 - \square = \square$$

$$36 - \square - \square = 7$$

5. Fill in the gaps in the calculations below:

$9 - 5 = \dots\dots\dots$

$7 - 3 = \dots\dots\dots$

$100 - 20 = \dots\dots\dots$

$\dots\dots\dots - 5 = 14$

$8 - 3 = \dots\dots\dots$

$100 - 63 = \dots\dots\dots$

$19 - \dots\dots\dots = 4$

$\dots\dots\dots - 3 = 6$

$100 - \dots\dots\dots = 55$

$29 - 15 = \dots\dots\dots$

$29 - 3 = \dots\dots\dots$

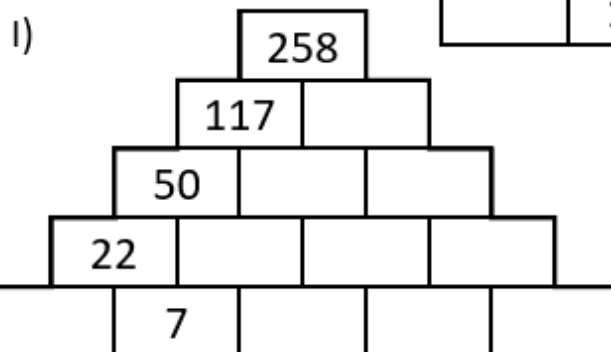
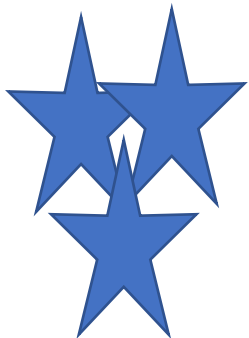
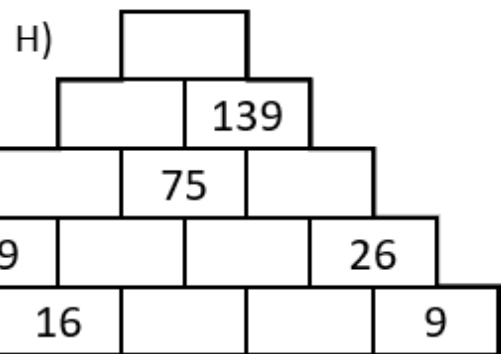
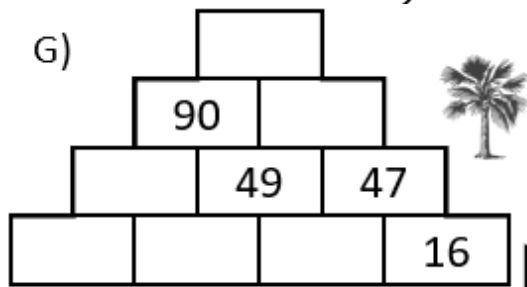
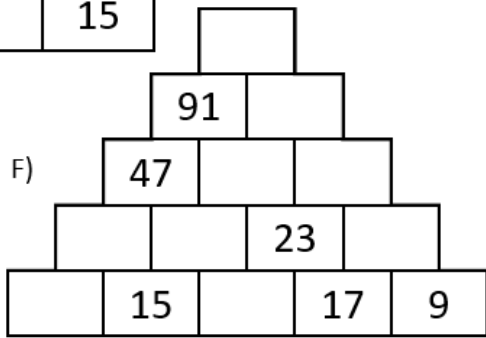
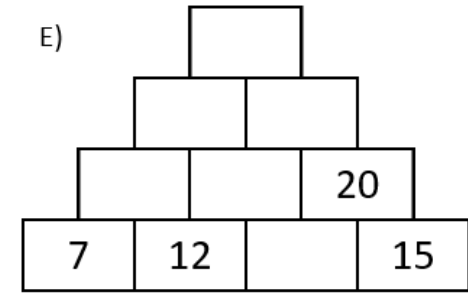
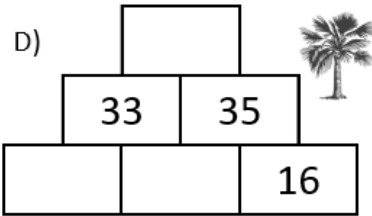
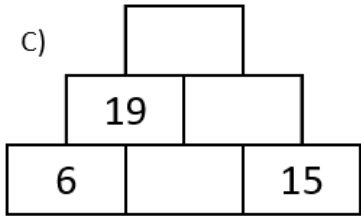
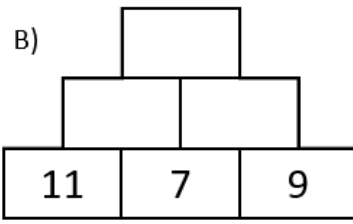
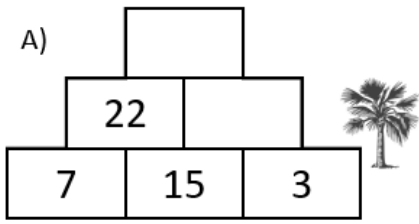
$100 - \dots\dots\dots = 11$



Number Pyramids

1

Each brick is the two bricks below it added together.



Concept Corner

We can also use written algorithms for addition and subtraction.

$$\begin{array}{r} 287 \\ +198 \\ \hline 485 \\ \hline \end{array}$$

1 1

$$\begin{array}{r} \cancel{5} \quad \overset{1}{\cancel{8}} \quad 12 \\ -295 \\ \hline 287 \\ \hline \end{array}$$

Give an example of a calculation where the written algorithm is **not** the most efficient method:

.....

.....

Give an example of a calculation where the written algorithm is the most efficient method:

.....

.....

1. Complete the calculations below:

$$\begin{array}{r} 234 \\ +353 \\ \hline \end{array}$$

$$\begin{array}{r} 989 \\ +531 \\ \hline \end{array}$$

$$\begin{array}{r} 795 \\ +926 \\ \hline \end{array}$$

$$\begin{array}{r} 4068 \\ +933 \\ \hline \end{array}$$

7. Complete the calculations below:

$$\begin{array}{r} 293 \\ -132 \\ \hline \end{array}$$

$$\begin{array}{r} 555 \\ -426 \\ \hline \end{array}$$

$$\begin{array}{r} 309 \\ -86 \\ \hline \end{array}$$

$$\begin{array}{r} 2170 \\ -775 \\ \hline \end{array}$$

Name

Addition and Subtraction (2,3 and 4 digit numbers)

4545	669	1309	1211	1386
7456	2488	4307	8833	4339
1396	7487	8982	842	15245
321	1111	8684	4173	357
3668	2478	6615	1090	4183

6629 + 858 =	6097 + 518 =	5921 - 5252 =	4821 - 482 =
821 + 488 =	2942 - 454 =	332 + 25 =	6695 - 2388 =
417 - 96 =	7940 + 893 =	5488 + 3196 =	8139 + 7106 =
5467 + 1989 =	4315 - 647 =	6547 + 2435 =	8374 - 6978 =
7042 - 2497 =	6845 - 2672 =	7391 - 6301 =	898 + 313 =

TOTAL

Problem Solving:

4. Find the missing digits below (there may be more than one solution):



$$\begin{array}{r} \square \quad 2 \quad 4 \\ + 1 \quad \square \quad 3 \\ \hline 4 \quad 5 \quad \square \end{array}$$

$$\begin{array}{r} \square \quad \square \quad 1 \\ + \quad \square \quad 8 \quad \square \\ \hline 1 \quad 6 \quad 0 \quad 0 \end{array}$$

$$\begin{array}{r} 4 \quad \square \quad 7 \\ + \quad 7 \quad \square \quad \square \\ \hline 1 \quad \square \quad 1 \quad 6 \end{array}$$

9. Find the missing digits below (there may be more than one solution):



$$\begin{array}{r} \square \quad 2 \quad 4 \\ - 1 \quad \square \quad 3 \\ \hline 6 \quad 2 \quad \square \end{array}$$

$$\begin{array}{r} \square \quad \square \quad 1 \\ - \quad 3 \quad 8 \quad \square \\ \hline 4 \quad 2 \quad 0 \end{array}$$

$$\begin{array}{r} 1 \quad 4 \quad \square \quad 7 \\ - 1 \quad \square \quad 7 \quad \square \\ \hline \square \quad 3 \quad \square \quad 9 \end{array}$$

6. Use each of the digits 1 to 9 once to create a sum as close to 1500 as possible.

$$\begin{array}{r} \square \quad \square \quad \square \\ \square \quad \square \quad \square \\ + \square \quad \square \quad \square \end{array}$$

$$\begin{array}{r} \square \quad \square \quad \square \\ \square \quad \square \quad \square \\ + \square \quad \square \quad \square \end{array}$$

$$\begin{array}{r} \square \quad \square \quad \square \\ \square \quad \square \quad \square \\ + \square \quad \square \quad \square \end{array}$$

d) Taiwo wants to know if he will have enough money to redesign his kitchen.

Before he starts, he has £1800 in his bank account.

First, Taiwo buys an oven and a washing machine for a total of £850. The washing machine cost £80 less than the oven.

Next, Taiwo buys a fridge and a freezer. The freezer costs £120 less than the fridge. After all of this, Taiwo has £220 left over.

How much did each item cost?

Answer GRID Cross off each answer, then total the remaining
5.

$1.1 + 2.5$	$3.9 - 2.4$	$7.3 + 1.6$	$5.6 - 2.8$	$3.0 + 0.7$
$7.2 - 3.7$	$4.2 + 3.6$	$0.7 - 0.2$	$4.0 + 1.8$	$2.2 - 0.6$
$0.7 + 0.7$	$2.3 - 1.9$	$0.9 + 2.9$	$4.5 - 2.0$	$11.4 + 5.8$
$6 - 1.7$	$3.3 + 6.6$	$3.8 - 2.2$	$4.1 + 0.6$	$5 - 2.8$

2.2	0.5	6	1.5	9.9
3.5	1.4	17.2	0.4	1.6
4.3	0.1	3.6	2.5	4.4
3	7.8	4.8	1.4	3.7
2.8	4.7	3.2	5.8	8.9

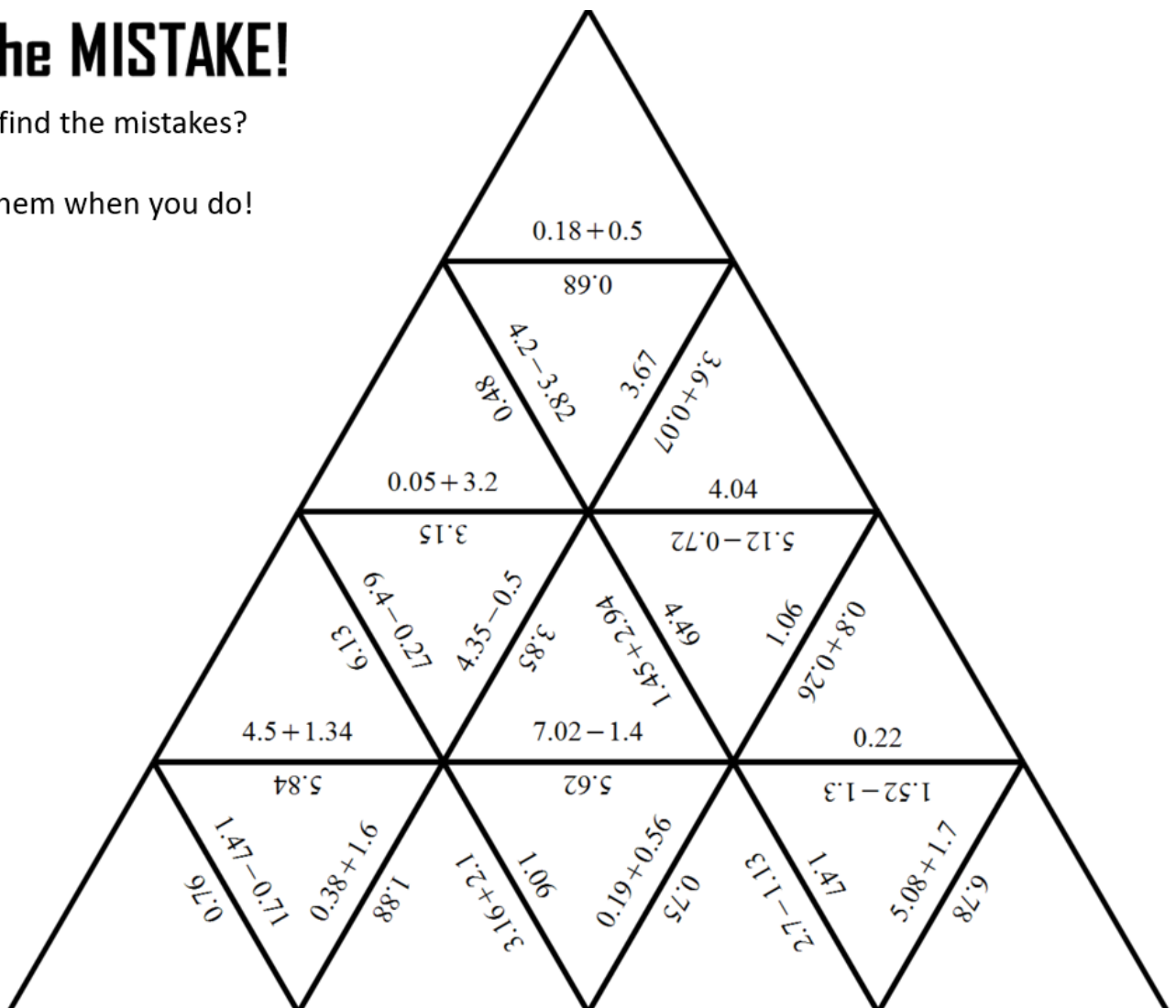
Total:

--

SPOT the MISTAKE!

Can you find the mistakes?

Correct them when you do!



Week 4: Rounding

- LI: Round numbers and measures to an appropriate degree of accuracy

Demonstration Videos:




<https://corbettmaths.com/2013/08/17/rounding-to-the-nearest-10/>

<https://corbettmaths.com/2013/08/17/rounding-to-the-nearest-100/>

<https://corbettmaths.com/2013/10/24/rounding-to-the-nearest-whole-number/>

<https://corbettmaths.com/2013/09/07/rounding-to-1-or-2-decimal-places/>

Tasks:

		
Round to the nearest 10	Round to the nearest 100	Round to the nearest 1000
1) 56	1) 126	1) 2411
2) 72	2) 350	2) 2645
3) 105	3) 597	3) 4850
4) 245	4) 749	4) 5500
5) 326	5) 850	5) 7659
6) 4412	6) 1254	6) 7499
7) 4485	7) 2465	7) 8277
8) 8495	8) 3648	8) 9502

Question 1: 645 people attended a concert. Round this to the nearest 10.

Question 2: 861 students attend a school. Round this to the nearest 100.

Question 3: The cost of a laptop is £1348. Round this to the nearest £100.

Question 4: 24,812 people attended a football match. Round this to the nearest thousand.

Question 5: The population of a city is 85,398. Round this to the nearest thousand.

Question 6: The number of beads in a jar is 50 to the nearest ten.

- What is the minimum possible number of beads in the jar?
- What is the maximum possible number of beads in the jar?

Question 7: The number of students at a school is 1200 to the nearest 100.

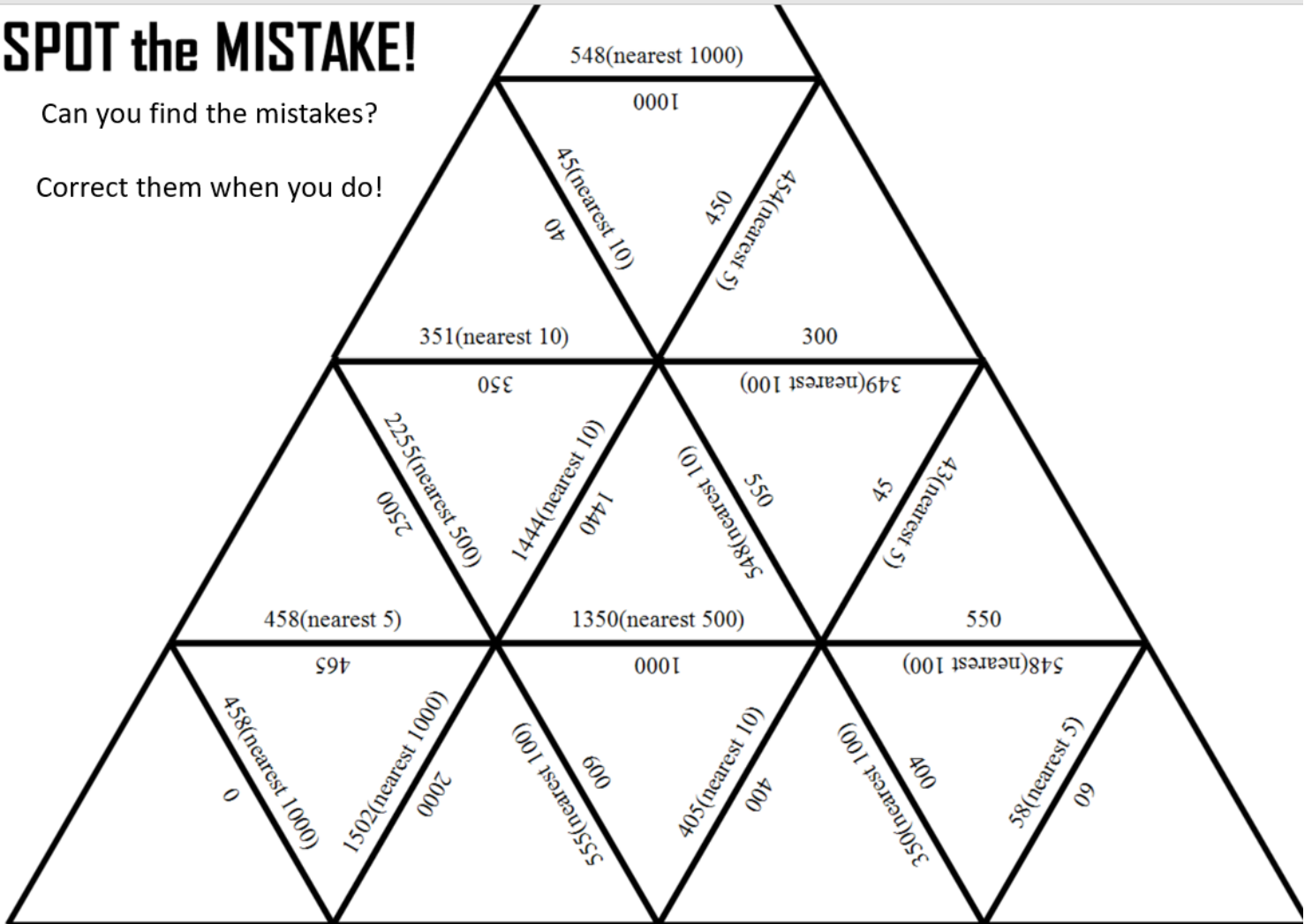
What is the maximum possible number of students at the school?



SPOT the MISTAKE!

Can you find the mistakes?

Correct them when you do!



Round 4.6 to
the nearest
integer

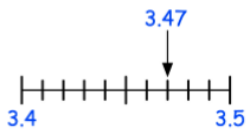
Round 9.45 to
the nearest
integer

Round 9.525
to the nearest
integer

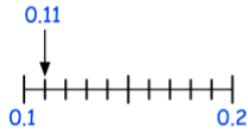
Round 10.095
to the nearest
integer

Question 1: Round each of the numbers below to 1 decimal place.

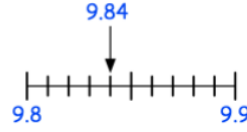
(a) 3.47



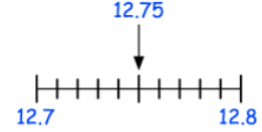
(b) 0.11



(c) 9.84

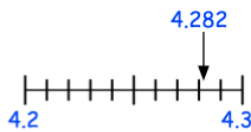


(d) 12.75



Question 3: Round each of the numbers below to one decimal place.

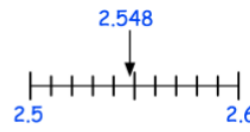
(a) 4.282



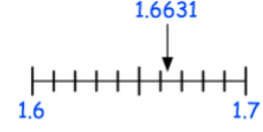
(b) 7.725



(c) 2.548



(d) 1.6631



Round to 1 decimal place

- 1) 1.36
- 2) 2.58
- 3) 0.498
- 4) 0.081
- 5) 1.26
- 6) 2.062
- 7) 0.075
- 8) 1.05



Round to 2 decimal places

- 1) 0.155
- 2) 0.478
- 3) 0.097
- 4) 0.028
- 5) 0.107
- 6) 0.089
- 7) 0.0049
- 8) 0.407



Round to 3 decimal places

- 1) 1.0554
- 2) 0.6578
- 3) 0.1066
- 4) 0.2022
- 5) 2.0058
- 6) 0.0009
- 7) 0.9999
- 8) 5.0024

Week 5: Estimation

- LI: Use approximation through rounding to estimate answers

Demonstration Video and Examples:

<https://corbettmaths.com/2012/08/21/approximation-to-calculations/>

Rewrite the calculation with each number rounded to **1 significant figure**.

$$2.7 + 8.65 \approx 12$$



$$3 + 9$$

Rewrite the calculation with each number rounded to **1 significant figure**.

$$\frac{7.72 + 13.63}{2.501} \approx 6$$



$$\frac{8 + 10}{3}$$



$$\frac{18}{3}$$

Tasks:

Instead of finding the **exact** result of a calculation, sometimes it is better to **approximate** the solution.

Jane calculates how much she spent on lunch this week.



A farmer calculates the amount of seed they need for their field.



Mrs Smith calculates the tax she will pay this year.

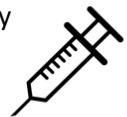


Which of these calculations are ok to approximate?

On a school trip, Mr Jones calculates the number of students on the bus back.



A doctor calculates the quantity of drugs he gives his patient.



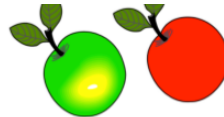
Jenny calculates how far she ran this morning.

Question 1: Work out an estimate to each of the following

(a) $906 + 397$ (b) $578 + 720$ (c) $912 - 114$ (d) $4998 - 592$

(e) $1965 - 370$ (f) $8.31 + 9.74$ (g) $50.6 - 5.25$ (h) $44.34 + 98.101$

Question 1: Suzie buys 53 apples at 38p each.
Estimate the total cost.



Question 2: A rectangular flowerbed has a length of 8.03 metres and a width of 2.93 metres.

- (a) Work out an estimate of the area of the flower bed.
(b) Work out an estimate of the perimeter of the flower bed.

Question 3: A roll of wallpaper cost £7.85.
Richard buys 29 rolls of wallpaper.
Work out an estimate for the total cost.

Question 4: The scientist Robert Boyle was born in 1627.
Work out an estimate for how many years ago he was born.

Name

33	6	35	7	12
4	14	1	20	15
44	10	30	8	25
16	13	32	9	3
2	11	26	5	23

$$\frac{280 + 17}{13 + 12}$$

$$\frac{850 - 280}{47}$$

$$\frac{104 - 24}{14}$$

$$\frac{487}{12 + 13}$$

$$\frac{290 - 66}{14}$$

$$\frac{84 + 750}{22}$$

$$\frac{114 + 41}{14 + 14}$$

$$\frac{568 + 35}{24}$$

$$\frac{188 - 53}{13}$$

$$\frac{844}{13 + 25}$$

$$\frac{196}{16 + 32}$$

$$\frac{98 + 21}{39}$$

$$\frac{355 + 255}{11 + 11}$$

$$\frac{199 + 55}{12}$$

$$\frac{570 - 245}{77}$$

Estimate the answers to:

$$\frac{734}{23 + 52}$$

$$\frac{45 + 62}{33 + 76}$$

$$\frac{75 + 84}{15 + 61}$$

$$\frac{435 - 96}{11}$$

$$\frac{66 + 53}{16}$$

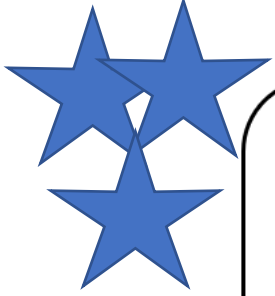
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TOTAL



Super Challenge:

You need to find a route from the 'Start' to the 'Finish', only passing through rooms where the answer is correct.



START!				
$3.1 \times 9.9 \approx 30$	$12.2 \div 5.4 \approx 2$	$13.6 \times 6.7 \approx 60$	$36.8 \div 7.7 \approx 5$	$\frac{12 \times 17}{2.3} \approx 100$
$2.7^2 \times 2.38 \approx 8$	$\frac{23.8 + 44.3}{4.8} \approx 12$	$\frac{7.42 \times 3.61}{3.94} \approx 6$	$4.3^2 \times 1.87 \approx 30$	$226 \times 2.41 \approx 400$
$\frac{101 \times 2.89}{46} \approx 6$	$4.06 \times 257 \approx 1200$	$25.06 \div 2.601 \approx 10$	$\frac{263 + 322}{26.9} \approx 20$	$4.61^2 + 5.42 \approx 22$
$\frac{96.6 \times 1.8^2}{3.601} \approx 110$	$238 \div 4.65 \approx 60$	$5.8^2 - 21.4 \approx 18$	$0.51 \times 128 \approx 50$	$\frac{65.1 + 25.8}{19.04} \approx 5$
$\frac{\sqrt{96.8}}{5.67 - 4.1} \approx 5$	$\frac{6.34 + 156}{2} \approx 103$	$\frac{17.5 \times 8.47}{3.501} \approx 40$	$8.92 \div 0.28 \approx 30$	$\frac{5.41^2 \times 2.97}{5.36} \approx 24$
$\frac{\sqrt{437} \times 2.12}{5.76 - 0.96} \approx 8$	$5.65 \times 516 \approx 3000$	$\frac{\sqrt{8.501} \times 7.8}{5.71} \approx 5$	$\frac{4.65 + 8.87}{9.22 - 1.74} \approx 2$	$0.671 \times 6.53 \approx 4.9$
$(7.82 \div 1.903)^2 \approx 16$	$\frac{\sqrt{872} \times 0.48}{2.8} \approx 6$	$3.564 \div 4.49 \approx 2$	$\frac{\sqrt{95.3} - 2.5^2}{0.95} \approx 3$	$\frac{8.45 \times 0.54}{0.46} \approx 7$
FINISH!				

Week 6: Perimeter

- LI: Calculate and solve problems involving perimeters of 2-D shapes

Demonstration Videos:

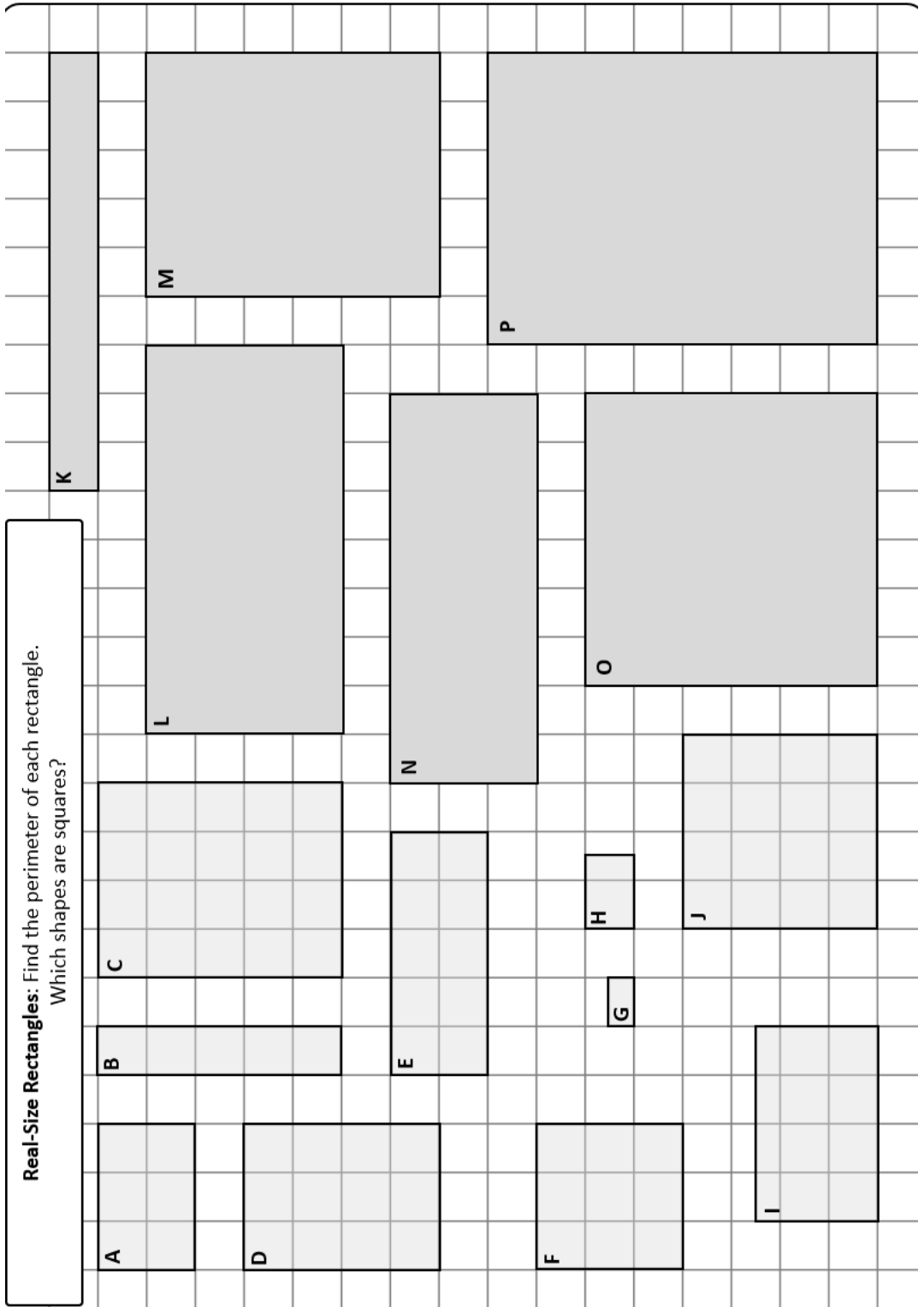
<https://corbettmaths.com/2013/03/25/perimeter-of-a-shape-on-a-grid/>

<https://corbettmathsprimary.com/2018/07/17/perimeter-video/>

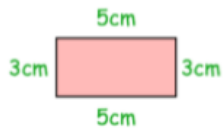
<https://corbettmaths.com/2012/08/02/perimeter/>

Tasks:

Real-Size Rectangles: Find the perimeter of each rectangle.
Which shapes are squares?

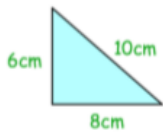


1. Work out the perimeter of this rectangle



cm

2. Work out the perimeter of this triangle



cm

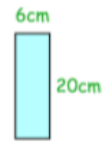
3. Work out the perimeter of this square



cm

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4. Work out the perimeter of this rectangle



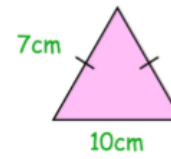
cm

5. Work out the perimeter of this equilateral triangle



m

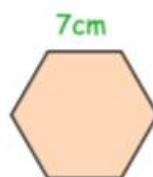
6. Work out the perimeter of this isosceles triangle



cm

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7. Work out the perimeter of this regular hexagon



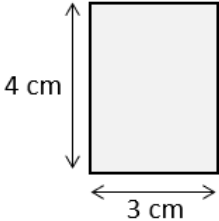
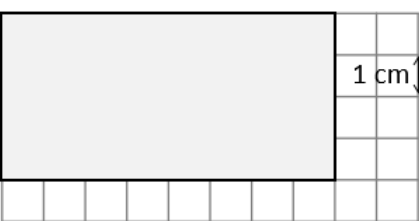
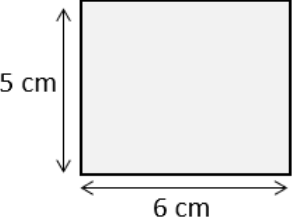
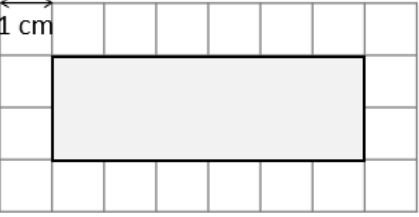
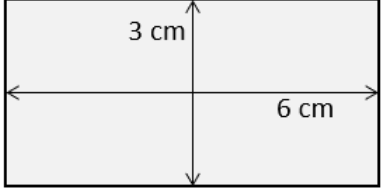
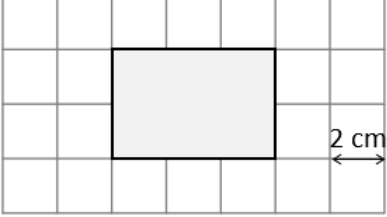
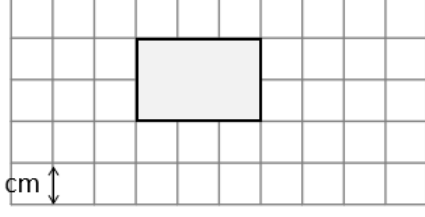
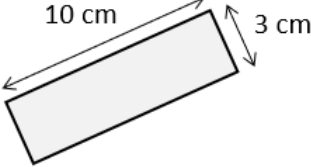
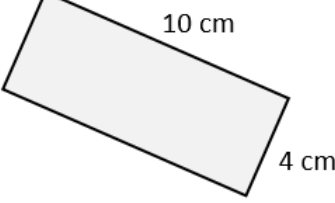
cm

8. Work out the perimeter of this regular pentagon

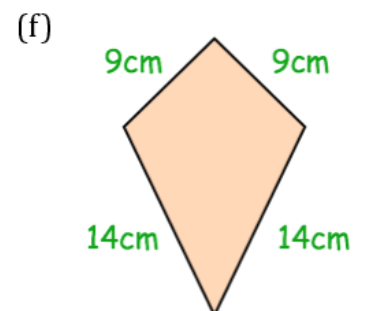
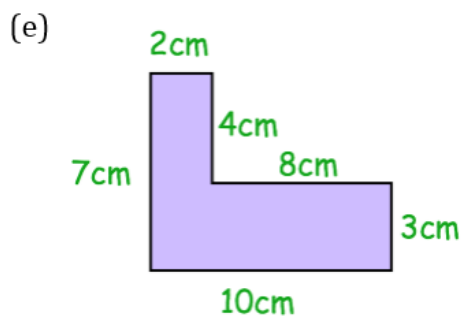
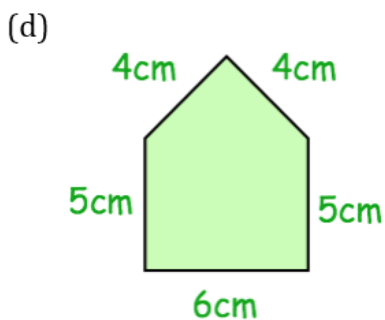
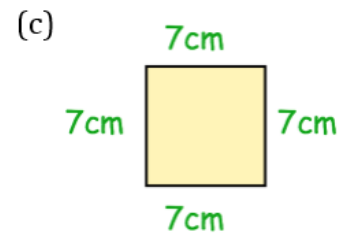
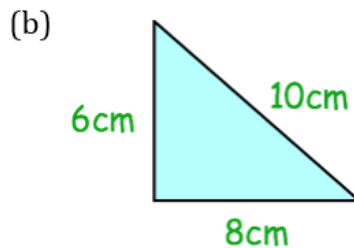
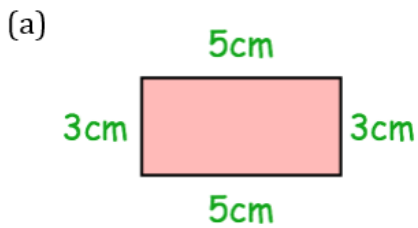


cm

Put the cards in **ascending order** according to **perimeter size** (smallest perimeter to largest).

A 	B 	C 
D 	E <p>A rectangle 9 cm in length & 8 cm in height.</p>	F 
G 	H 	I 
J <p>A rectangle 4 cm in width. The rectangle's length is 3 times its width.</p>	K 	L <p>A rectangle 4.5 cm in length & 1.5 cm in height.</p>

Question 1: Work out the perimeter of each shape below





How could you **divide each shape** to make it easier?

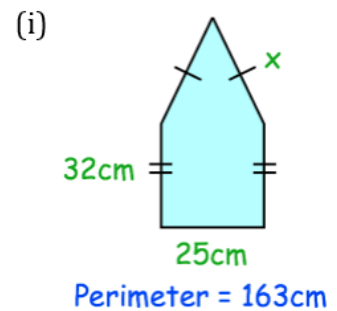
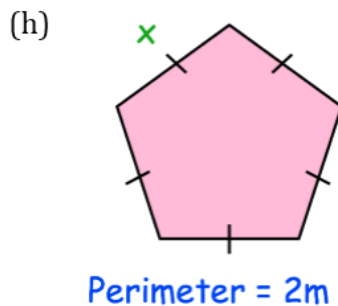
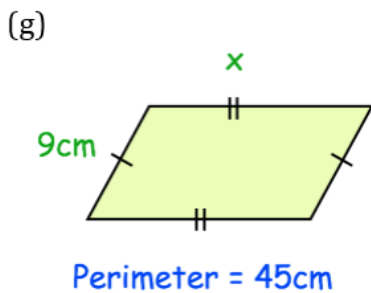
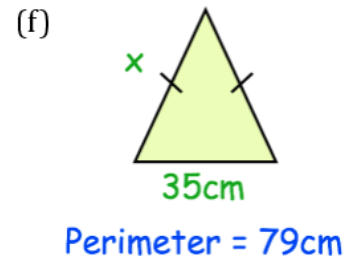
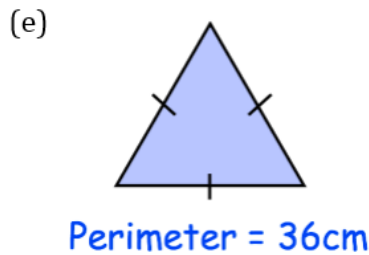
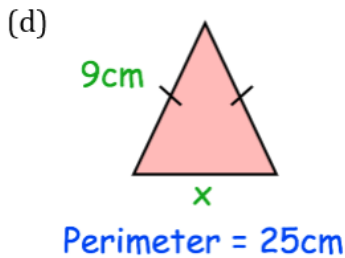
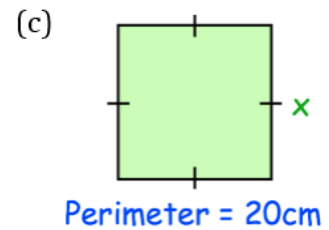
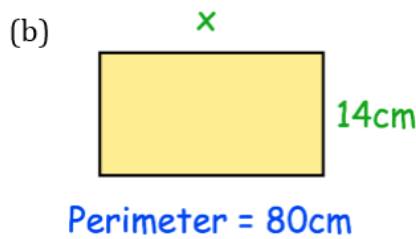
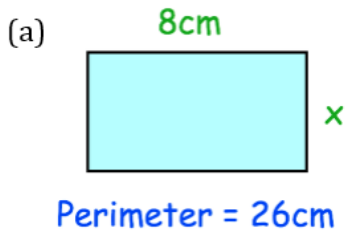
Calculate the **Perimeter** of each **Compound Shape**

3 cm

1

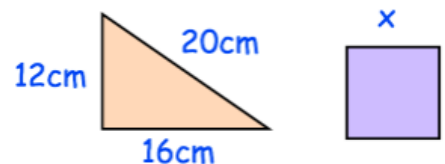
Challenge:

Question 8: The perimeter of each shape is given. Find the length of the missing side



Question 2: A rectangle has a perimeter of 18cm.
Write down a possible pair of values for its length and width

Question 3: The triangle and square have the same perimeter.
Find x



Question 4: Shown is a rectangle.
Work out the perimeter of the rectangle.



Assessment Ladder