



Year 5 Learning Grid – 6th July 2020

Maths	<p>Number and place value</p> <p>a) Write this number in words: 14 287</p> <p>b) Write this amount in figures: seven thousand, nine hundred and ten</p> <p>c) Write these numbers in order from smallest to largest: 3792, 37.92, 3710, 379.3, 3789</p> <p>d) Complete this sequence: 23.9, ____, 33.1, 37.7, ____, 46.9</p> <p>e) Complete this sequence -16, -12, -8, -4, ____, ____, ____</p> <p>Thinking Start with the number 79 496. Find the number that is :</p> <p>a) 1 more b) 10 more</p> <p>c) 100 more d) 1000 more</p> <p>Explaining The winning boat team, Entrepid, travelled 310 miles at sea in 4 hours 30 minutes. How long would it take the Entrepid team to travel 3100 miles assuming they were travelling at the same speed?</p> <p>Solving Ally swam a number of lengths of the swimming pool. The number of lengths is a multiple of 12 and a square number, and the sum of its digits is 9. Ally swam less than 100 lengths. How many lengths did Ally swim?</p>	<p>Addition and subtraction</p> <p>a) $2363 + 4820 =$</p> <p>b) $6905 + 4795 =$</p> <p>c) $12\,473 + 7239 =$</p> <p>d) Find the missing numbers: $14\,457 + \underline{\hspace{2cm}} = 19880$ $74\,404 + \underline{\hspace{2cm}} = 83\,393$ $105\,576 + \underline{\hspace{2cm}} = 129\,417$</p> <p>e) $38.20 + 28.18 + 4.21 =$</p> <p>f) $9287 - 2038 =$</p> <p>g) $8293 - 2940 =$</p> <p>h) $3622 - 2037 =$</p> <p>Find the missing numbers: $48\,923 - \underline{\hspace{2cm}} = 36\,138$ $\underline{\hspace{2cm}} - 24\,812 = 32\,168$</p> <p>Thinking Continue the pattern for the next three calculations $12.03 - 8.98 = 3.05$ $12.02 - 8.99 = 3.03$ _____ _____ _____</p> <p>Solving</p> <div style="background-color: #f0f0f0; padding: 5px; text-align: center;"> <p>Check the Answer</p> </div> <p>A pizza shop makes 176 pizza bases before opening. Over the evening, they sell 247 pizzas. During the evening, they make another 80 pizza bases. How many pizza bases will be left at the end of the evening?</p> <p>Bailey says they have 151 pizza bases left. Ashleigh says they have 9 pizza bases left.</p> <p>Who is correct and what mistakes have been made? What other errors might be made?</p>	<p>Multiplication and division</p> <p>a) $7 \times 16 =$</p> <p>b) $12 \times 19 =$</p> <p>c) $119 \times 3 =$</p> <p>d) $35.2 \times 10 =$</p> <p>e) $492 \div 4 =$</p> <p>f) $2688 \div 7 =$</p> <p>g) $4686 \div 6 =$</p> <p>h) $12\,1254 \div 3 =$</p> <p>Thinking Use all the digits 5, 6, 7 and 8 and the x sign once each to make the following:</p> <p>a) the largest multiplication statement possible</p> <p>b) the smallest multiplication statement possible</p> <p>Explaining Assuming you want the most, which of these do you want? Explain why?</p> <p>a) 1 cake shared between 5 of you or 2 cakes shared between 8 of you</p> <p>Solving Two types of alien live on the planet Starlight: Zoomas have 3 eyes and 2 legs and Popsies have 4 eyes and 5 legs. How many of each type of alien might there be if there are 38 eyes and 37 legs?</p> <p>Michael works for the road safety team on the motorway. He has to lay out a cone every 90cm for 2520cm to close a lane. How many cones will Michael need altogether?</p>	<p>Fractions, decimals and percentages</p> <p>What fraction of the shape is shaded?</p> <p>1.</p> <p>2.</p> <p>3.</p> <p>4. Use the denominators given to write equivalent fractions for $\frac{1}{3}$</p> <p>$\frac{\quad}{9}$ $\frac{\quad}{6}$ $\frac{\quad}{30}$ $\frac{\quad}{18}$</p> <p>5. Convert these mixed numbers into improper fractions</p> <p>a) $1\frac{4}{5}$ b) $2\frac{8}{10}$ c) $4\frac{5}{9}$ d) $8\frac{1}{2}$</p> <p>6. Convert these improper fractions into mixed numbers</p> <p>a) $\frac{4}{3}$ b) $\frac{15}{10}$ c) $\frac{24}{10}$ d) $\frac{49}{8}$</p> <p>Thinking Jethro is looking at a tablet priced £282. How much would Jethro save if he bought 3 tables for work with a discount of $\frac{1}{4}$ off the original price?</p>
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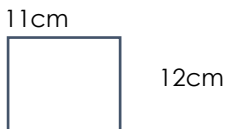
Measure

a) Which is the heaviest sack of potatoes?
900kg 990 000g 909kg 9.9kg

b) Write these capacities in descending order.
1.80 litres 880ml 8 litres 80ml
8800 ml 0.8 litres

c) The perimeter of the rectangular shaped Whitehill Park is 80m.
What could the dimensions of the park be?

d) Calculate the area of the rectangles.



Thinking

Draw a rectangle with an area of 12cm²

Explaining

What could the dimensions be of a rectangle with an area of 20m²

Solving

Write < or > to make this time statement correct

a) 300 seconds 4 ¹/₂

Geometry - Properties of Shape

Sketch an example of each polygon as it is in its regular and its irregular form. Angle sizes do not need to be exact.

Polygon	Regular	Irregular
Triangle		
Quadrilateral		
Pentagon		
Hexagon		

Thinking

How many isosceles triangles are needed to make an octagon?

Explaining

Circle True or False for each statement

- a) Rectangles are 3-D Shapes **T/F**
- b) A rectangle is an oblong **T/F**
- c) A rectangle is a quadrilateral **T/F**

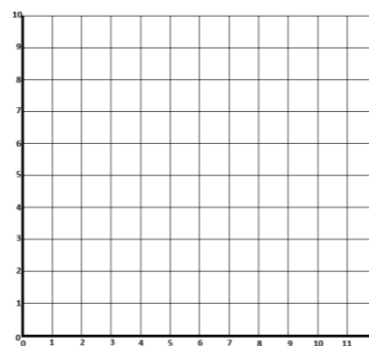
Solving

How many degrees does the minute hand rotate through in 60 minutes?

Position and direction

- a) What is the co-ordinate of the point midway between (2,4) and (2,10)?
- b) What is the co-ordinate of the point midway between (4,5) and (10,11)?

c) Plot these co-ordinates on the grid below.
(3,5) (4,9) (5,5) (6,9)



What shape do they make?

Thinking

Fill in the missing co-ordinates so that each set will make a rectangle

- a) (2,2) (7,4) (7,2) (_____, _____)
- b) (6,5) (6,1) (4,1) (_____, _____)

Statistics

Below is a table showing the number of house points that each house in St Henry's School have been awarded each year.

Year	Red House	Blue House	Yellow House	Green House
2010	89	96	103	101
2011	102	100	110	106
2012	106	101	115	122
2013	120	121	98	98
2014	119	119	119	99
2015	101	101	89	95
2016	92	107	113	124

- a) Which house has performed the best overall?
- b) How many points separate the highest and lowest performing houses?
- c) In which year was the total for all four houses altogether the highest?

Solving

The buses on this timetable all take the same time to travel the route. Complete the table.

Mill Road	0726		0842
High St	0729	0803	
Southey Green		0816	0858
Pitsmoor Road	0759	0833	
Snig Hill	0812		0928
Hunters Bar		0904	0946
Fulwood	0845	0919	



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Mixed Questions

- a) Work out $0.7 \times 0.8 =$
- b) Write the Roman numerals xxxv11 in figures
- c) Which of these fractions is equivalent to a half? $\frac{1}{3}$ $\frac{2}{5}$ $\frac{3}{6}$ $\frac{4}{9}$ $\frac{5}{8}$
- d) $42 \div 6$
- e) Write down the number eighteen thousand and twenty-seven
- f) Write down two numbers with a sum of 9 and a difference of 1

g) _____
How many vertices in a triangular pyramid?

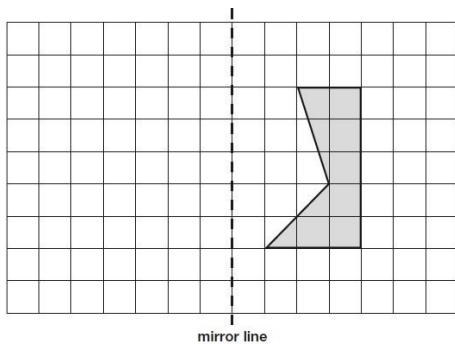


h) Write down all the factors of 15

- i) Add together $6\frac{1}{5}$, 5 and $3\frac{1}{2}$
- j) I have £10, I spend £2.70. How much do I have left?
- k) Circle the **prime** number.
95 89 87

Explain how you know the other numbers are **not** prime.

l) Here is a shaded shape on a square grid. Reflect the shape in the mirror line. Use a ruler.



- m) What is the value of $x + 7$ when $x = 3$?
- n) What is a $\frac{1}{3}$ of 21?
- o) A plane journey takes $6\frac{1}{2}$ hours. If I set off at 8.40am, what time will I arrive?
- p) A pen costs £4.60. How much will 2 pens cost?
- q) A piece of rope measuring 4cm is cut into 8 equal lengths. How long will each piece be?
- r) The numbers in this sequence **increase** by 45 each time. Write the missing numbers.

155 200 245

s) Complete the table.

	Round 39,476
to the nearest 10,000	
to the nearest 1,000	
to the nearest 100	

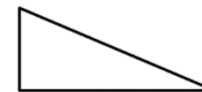
t) = $8,275 + 82$

u) $7 - 2.25 =$

v) $3^3 =$

How many acute angles?

w)



x) Add together $\frac{2}{10}$, $\frac{3}{10}$, and $\frac{4}{10}$

y) Round 3.48 to the nearest whole number

z) In a class, $\frac{2}{5}$ of the children are boys. What fractions are girls?