
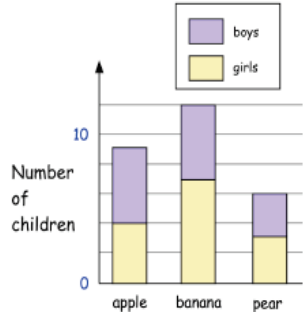
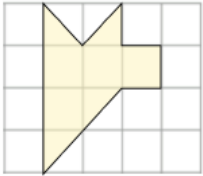
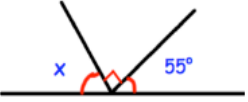


# Unit 3 Week 5 Maths

## Thursday Simmering







**Choose one section for your simmering then one section for your main activity.**

**If you fancy a challenge do try the next level**








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<p>Double 48</p> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 20px auto;"></div>	<div style="text-align: center;"> <math display="block">\begin{array}{r} 17 \\ \times 5 \\ \hline \end{array}</math> </div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 20px auto;"></div>	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <math display="block">\frac{1}{4} + \frac{5}{12} + \frac{1}{4}</math> </div> <div style="width: 45%;"> <math display="block">500 - 530</math> </div> </div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 20px auto;"></div>
<p>Name this shape</p>	<div style="text-align: center;">  </div>	<p>Noah chooses a <b>prime number</b></p> <p>He rounds it to the nearest ten.</p> <p>His answer is 20.</p> <p>Write down all the possible prime numbers Noah could have chosen.</p>
<p>Find the two missing numbers</p>	<div style="text-align: center;"> <input type="text"/> 12 16 <input type="text"/> 24         </div>	<p>Which type of fruit was chosen by the same number of boys and girls?</p> <div style="text-align: center;">  </div> <p>How many boys are in the class?</p>
<p>Tick any shape that has a right angle</p>	<div style="display: flex; flex-wrap: wrap; justify-content: space-around;"> <div style="border: 1px solid black; width: 40px; height: 40px; margin: 5px;"></div> <div style="border: 1px solid black; width: 40px; height: 40px; margin: 5px; transform: rotate(45deg);"></div> <div style="border: 1px solid black; width: 40px; height: 40px; margin: 5px; transform: rotate(-45deg);"></div> <div style="border: 1px solid black; width: 40px; height: 40px; margin: 5px;"></div> </div>	<p>The numbers in this sequence increase by 4 each time.</p> <p>4 8 12 16 .....</p> <p>The numbers in this sequence increase by 5 each time.</p> <p>5 10 15 20 ...</p> <p>Write three numbers in <b>both</b> sequences</p>
<div style="border: 1px solid black; padding: 5px;"> <p>Here is a grid of 20 squares.</p> <p style="text-align: center;"><b>What fraction of the grid is shaded?</b></p> </div>	<div style="text-align: center;">  </div>	<p>Find the size of angle x</p> <div style="text-align: center;">  </div>



Hotel Name	Star Rating & Highlights	Rooms	Price Per Night
 TAJ EXOTICA	<ul style="list-style-type: none"> <li>• *** stars</li> <li>• Large pool</li> <li>• Restaurant</li> <li>• Air conditioning</li> </ul>	Family Room (sleeps 4)	£35
		Single Rooms (1)	£20
		Twin Room (sleeps 2)	£30
 LEMON TREE BEACH	<ul style="list-style-type: none"> <li>• **** stars</li> <li>• 3 pools</li> <li>• 2 restaurants</li> <li>• Free internet</li> <li>• Air conditioning</li> </ul>	Family Room (sleeps 4)	£50
		Single Rooms (1)	£30
		Twin Room (sleeps 2)	£40
 JEWEL IN THE CROWN	<ul style="list-style-type: none"> <li>• ***** stars</li> <li>• 5 pools, gym</li> <li>• 5 restaurants</li> <li>• Free internet and phone</li> </ul>	Family Room (sleeps 4)	£100
		Single Rooms (1)	£60
		Twin Room (sleeps 2)	£80
 HIPPIY TOWN HOSTEL	<ul style="list-style-type: none"> <li>• * star</li> <li>• Close to town centre</li> </ul>	Shared room (bunk beds)	£4




Type of Catering	Includes	Price Per Day, per person
All Inclusive - Luxury 	All food and drink Luxury meals, snacks 24 hours Desserts	£25
All Inclusive - Basic 	All food and drink Basic meals and snacks	£15
Self Catering 	All ingredients to make meals	£8
Restaurants 	All food and drink 3 meals a day	£20
Street Food 	All food and drink 3 meals a day from street stalls and markets	£12

Airline / Class	Holiday Length	Times	Luggage Allowance	Price per Person
 Sunlight Air Economy Class	7 nights	22 hours Depart - 6am	1 suitcase per person	£500 each
 Sunlight Air First Class	10 nights	21 hours Depart 10am	2 suitcases per person	£750 each
 India Flights Economy Class	14 nights	25 hours Depart 4.30am	1 suitcase per person	£800 each
 Mehndi Travel Economy Class	14 nights	25 hours Depart 3am	1 suitcase per person + rucksacks	£820 each
 Mehndi Travel First Class	18 nights	20 hours Depart 4pm	3 suitcases per person	£1,000 each
 Peacock Air Luxury First Class	21 nights	20 hours Depart 2pm	Unlimited luggage	£1,500 each

<p><b>Our flights</b></p> <p>When are you flying?</p> <p>How long is your holiday?</p> <p>How much luggage can you take?</p> <p>How much will the flights cost?</p>	<p>You are flying with one friend or member of your family. Who have you chosen? _____</p> <p>June, July or August? Circle one.</p> <p>7 nights, 10 nights or 14 nights? Circle one</p> <p>1 suitcase each? 1 suitcase altogether, 2 suitcases each? More than 2 suitcases each Circle one.</p> <p>1. Look on the flight chart and work out for 2 people...</p>
<p><b>Our Hotel</b></p> <p>Which hotel are you going to stay at?</p> <p>Which rooms are you going to book?</p> <p>How many rooms?</p> <p>How much will the hotel cost?</p>	<p>How many rooms for two of you? 1 each or 1 together. Circle your answer</p> <p>2. Use the hotel chart and how many nights you chose. Work the price out for 2 people...</p> <p>Which catering will you have? Work out for each day you and your friend are on holiday.</p> <p>3. Use the catering (food) chart and how many nights you chose. Work the price out for 2 people...</p>

Activity / Visit	Cost per Person
 <p>BEACH</p> <p>VISIT</p>	FREE
 <p>CINEMA</p> <p>VISIT</p>	£2 for ticket £1 popcorn £1 drinks
 <p>Shopping Mall - excluding spending money</p>	FREE
 <p>Lost Temple</p> <p>Visit - with guided tour</p>	£25 per person
 <p>Taj Mahal</p> <p>Guided Tour</p>	£10 per person
 <p>Indian Safari</p>	£50 per person
 <p>Pleasure Flights - 4 hours with pilot</p>	£100 per person

Vehicle Type	Seats / Extras	Cost of Petrol	Cost of Hire
 <p>Sensible Hatchback</p>	5 seats Seatbelts Air bags Lots of space	£10 per day	£25 per day
 <p>Retro Sports Car</p>	2 seats Seatbelts Very fast	£30 per day	£50 per day
 <p>Vintage Luxury Car</p>	4 seats Seatbelts Leather seats	£30 per day	£50 per day
 <p>Motorbike</p>	1 seat	£4 per day	£10 per day

Travel Insurance	What it Covers	Price
 <p>Moon and Co Full Cover</p>	Lost Luggage Medical costs Car breakdown Cancellation Theft of property	£40 each person
 <p>Star Society Budget Cover</p>	Medical costs Car breakdown Theft of luggage	£25 each person
 <p>Lucky Hug Brothers Cut Price Low Cover</p>	Theft of luggage	£5 each person

# LO: To solve money problems.

<p><b>Car Hire</b></p> <p>Which car are you going to hire?</p> <p>How much will petrol cost?</p> <p>How much will the car and petrol cost altogether?</p>	<p><b>Choose a car.</b> _____</p> <p>How much will the car and petrol cost altogether?</p>
<p><b>Activities</b></p> <p>What trips and visits will you go on?</p> <p>How much will your activities cost, for everyone in your group?</p>	<p><b>Choose 2 activities off the chart that you would like to do. Write them down</b> _____</p> <p>Work out how much this will cost for 2 people..</p>
<p><b>Finally, when you go on holiday you need travel insurance.</b></p> <p><b>Which travel insurance do you and your friend want?</b></p>	<p><b>Choose travel insurance off the chart. Write it down</b> _____</p> <p>Work out how much this will cost for 2 people..</p>

How much money have you spent altogether? Show your working out.

Flights

Hotel

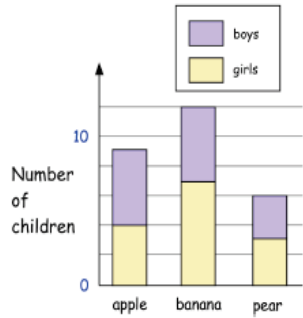
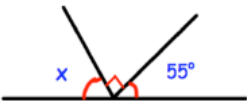




Catering

Car Hire + Petrol

Travel Insurance

Activities

**Answers – if you want me to mark your holiday plan, please take a photograph or scan your work and send it to [info@broadfield.oldham.sch.uk](mailto:info@broadfield.oldham.sch.uk)**

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<p>Double 48</p> <div style="border: 1px solid black; width: 60px; height: 60px; margin: 20px auto; text-align: center; font-weight: bold;">96</div>	$\begin{array}{r} 17 \\ \times 5 \\ \hline \end{array}$ <div style="border: 1px solid black; width: 60px; height: 60px; margin: 20px auto; text-align: center; font-weight: bold;">85</div>	$\frac{1}{4} + \frac{5}{12} + \frac{1}{4}$ <div style="border: 1px solid black; padding: 5px; margin: 10px auto; width: 80%; text-align: center;"> <p><math>\frac{1}{4} = \frac{3}{12}</math> so all denominators are the same..</p> <p><math>\frac{3}{12} + \frac{5}{12} + \frac{3}{12} = \frac{11}{12}</math></p> </div>												
<p>Name this shape</p> <div style="border: 1px solid black; width: 60px; height: 60px; margin: 20px auto; background-color: #f8d7da;"></div> <div style="border: 1px solid black; width: 60px; height: 60px; margin: 20px auto; text-align: center; font-weight: bold;">rectangle</div>	<p>Each child in a class is given one piece of fruit.</p>  <table border="1" style="display: none;"> <caption>Fruit Preference Data</caption> <thead> <tr> <th>Fruit</th> <th>Boys</th> <th>Girls</th> </tr> </thead> <tbody> <tr> <td>apple</td> <td>6</td> <td>3</td> </tr> <tr> <td>banana</td> <td>5</td> <td>7</td> </tr> <tr> <td>pear</td> <td>3</td> <td>3</td> </tr> </tbody> </table> <p>Which type of fruit was chosen by the same number of boys and girls?</p> <div style="border: 1px solid black; width: 60px; height: 60px; margin: 20px auto; text-align: center; font-weight: bold;">pear</div>	Fruit	Boys	Girls	apple	6	3	banana	5	7	pear	3	3	<p>Noah chooses a prime number</p> <p>He rounds it to the nearest ten.</p> <p>His answer is 20.</p> <p>Write down all the possible prime numbers Noah could have chosen.</p>
Fruit	Boys	Girls												
apple	6	3												
banana	5	7												
pear	3	3												
<p>Find the two missing numbers</p> <div style="display: flex; justify-content: space-around; align-items: center; margin: 20px 0;"> <input type="text" value="8"/> 12 16 <input type="text" value="20"/> 24         </div> <div style="border: 1px solid black; width: 60px; height: 60px; margin: 20px auto; text-align: center; font-weight: bold;">8, 12, 16, 20, 24</div>	<p>How many boys are in the class?</p> <div style="border: 1px solid black; width: 60px; height: 60px; margin: 20px auto; text-align: center; font-weight: bold;">13 boys</div>	 <div style="border: 1px solid black; padding: 5px; margin: 10px auto; width: 80%; text-align: center;"> <p>Find the size of angle x</p> <p><math>90</math> (right angle) <math>+ 55 = 145</math>.</p> <p>Straight line = <math>180</math></p> <p>So <math>180 - 145 = 35</math> degrees</p> </div>												
<p>Tick any shape that has a right angle</p> <div style="display: flex; justify-content: space-around; align-items: center; margin: 20px 0;"> <div style="text-align: center;">   <input checked="" type="checkbox"/> </div> <div style="text-align: center;">   <input type="checkbox"/> </div> <div style="text-align: center;">   <input type="checkbox"/> </div> <div style="text-align: center;">   <input checked="" type="checkbox"/> </div> </div>	<p>The numbers in this sequence increase by 4 each time.</p> <p>4 8 12 16 .....</p> <p>The numbers in this sequence increase by 5 each time.</p> <p>5 10 15 20 ...</p> <p>Write three numbers in both sequences</p> <div style="border: 1px solid black; width: 60px; height: 60px; margin: 20px auto; text-align: center; font-weight: bold;">20, 40, 60</div>	<p>Here is a grid of 20 squares.</p> <p>What percentage of the grid is shaded?</p> <div style="border: 1px solid black; width: 60px; height: 60px; margin: 20px auto; text-align: center; font-weight: bold;">6/20 = 3/10</div> 