

Y3 Maths Holiday Homework!

Place Value

Hundreds	Tens	Ones
2	4	7

In this number there are 2 hundreds, 4 tens and 7 ones. The value in the hundreds column is 200, the value in the tens is 40 and the value of the ones is 7.

Using the example above to help, answer the following questions:

What is the value of the underlined numbers?

1. 387

2. 765

3. 892

4. 103

Addition

$$\begin{array}{r} 356 \\ + 39 \\ \hline 395 \\ \hline 1 \end{array}$$

Remember we always start from the ones column. If it is above 10 we exchange into the next column. Don't forget to add this on when you count up! Always make sure your columns are lined up!

Use the example above to help you solve these calculations:

1. $287 + 28$

2. $762 + 98$

3. $286 + 283$

4. $863 + 113$

5. $392 + 143$

6. $872 + 102$

Subtraction

$$\begin{array}{r} 3\cancel{5}^4 16 \\ - 39 \\ \hline 317 \end{array}$$

Remember we always start from the ones column. Make sure the biggest number is on top. Check that you can do the subtraction, if not, you need to exchange from the next column.

Use the example above to help you solve these calculations:

1. $259 - 28$

2. $762 - 38$

3. $286 - 283$

4. $129 - 110$

5. $429 - 143$

6. $872 - 102$

Multiplication

Use this worked example to help you remember how to use the written method.

$$12 \times 2 = 24$$

$$\begin{array}{r} 17 \\ \times 3 \\ \hline 51 \\ 2 \\ \hline \end{array}$$

Step one: $3 \times 7 = 21$
Step two: $3 \times 1 = 3$
Step three: $3 + 2 = 5$

1. 17×4

2. 36×3

3. 38×4

4. 36×5

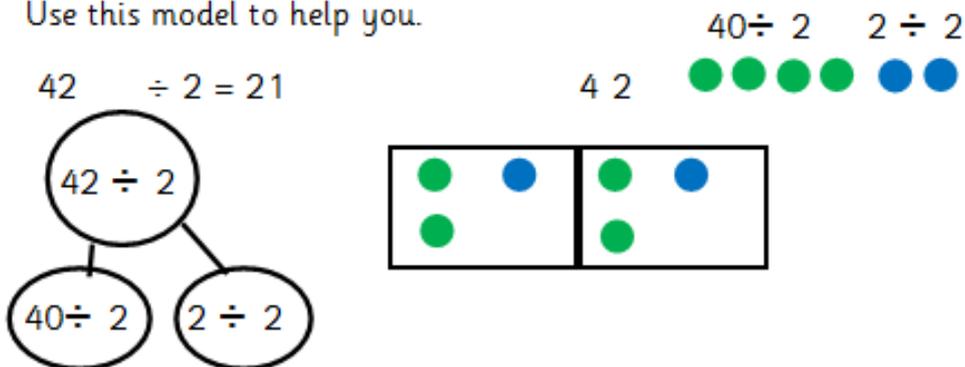
5. 23×5

6. 42×4

Division

Use the partitioning method to help you work out the following calculations. Draw the model out in your books.

Use this model to help you.



1. $63 \div 3 =$

4. $84 \div 4 =$

2. $84 \div 2 =$

5. $96 \div 3 =$

3. $39 \div 3 =$

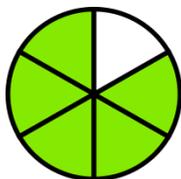
6. $86 \div 2 =$

Fractions

Remember that fractions are part of a whole. The denominator (bottom number) shows how many parts the whole is split into. The numerator (top number) shows how many of those parts you have.

$$\frac{4}{5}$$

So, here we have a whole split into 5 parts and we have 4 of those parts.



Use your understanding of fractions to order, compare, add and subtract these fractions.

1.

$$\frac{1}{4} \quad \frac{3}{4} \quad \frac{2}{4}$$

2.

$$\frac{3}{5} \quad \frac{1}{5} \quad \frac{4}{5} \quad \frac{2}{5}$$

Can you put these in order from smallest to biggest?

Colour in the correct number of boxes and write the answer to the fraction sums. Example:

a) $\frac{1}{4} + \frac{3}{4} = \frac{4}{4}$

Red Blue



b) $\frac{1}{4} + \frac{2}{4} = \frac{\quad}{4}$

Red Blue



c) $\frac{2}{5} + \frac{1}{5} = \frac{\quad}{5}$

Red Blue



1.



$\frac{2}{4}$

2.



3.



Measurement

The units of measurement we have looked at this year are:

- m, cm, mm
- Kg, g
- L, ml

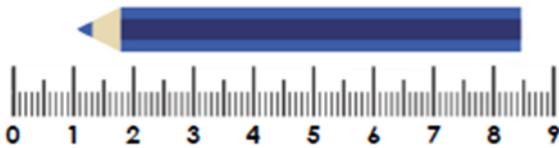
Musa says that the red ribbon is 2m longer than the blue. Is he correct?



What is the correct answer?

6a. Karl has measured the pencil.

He thinks it is 75cm long.



Is he correct?

Convince me.

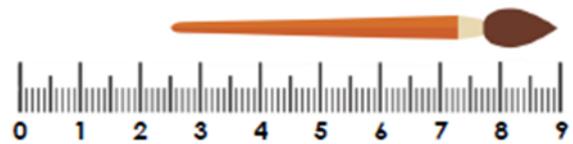


Not to Scale

R

6b. Sara has measured the paint brush.

She thinks it is 65cm long.



Is she correct?

Convince me.



Not to Scale

R

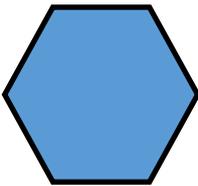
There are 100cm in 1 metre. Use this knowledge to help you compare these lengths.

Zain	2m
Hannah	200cm
Ali	79cm

Zain says his ribbon is the same length as Hannah's. Is he correct? Explain

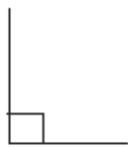
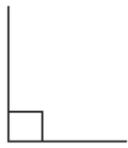
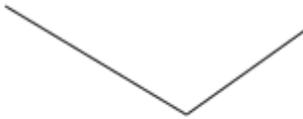
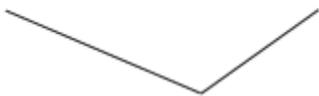
Shape

Have a go at drawing these shapes using the descriptions given.

Shape	Special Requirements	
Triangle	All angles smaller than right angles.	
Quadrilateral	Two angles larger than a right angle. Two angles smaller than a right angle.	
Pentagon	2 right angles	
Hexagon	Has 6 sides	

A right angle has a measurement of 90 degrees. It looks like this:



e.g.			
	Acute	<	Right angle
1.			
2.			

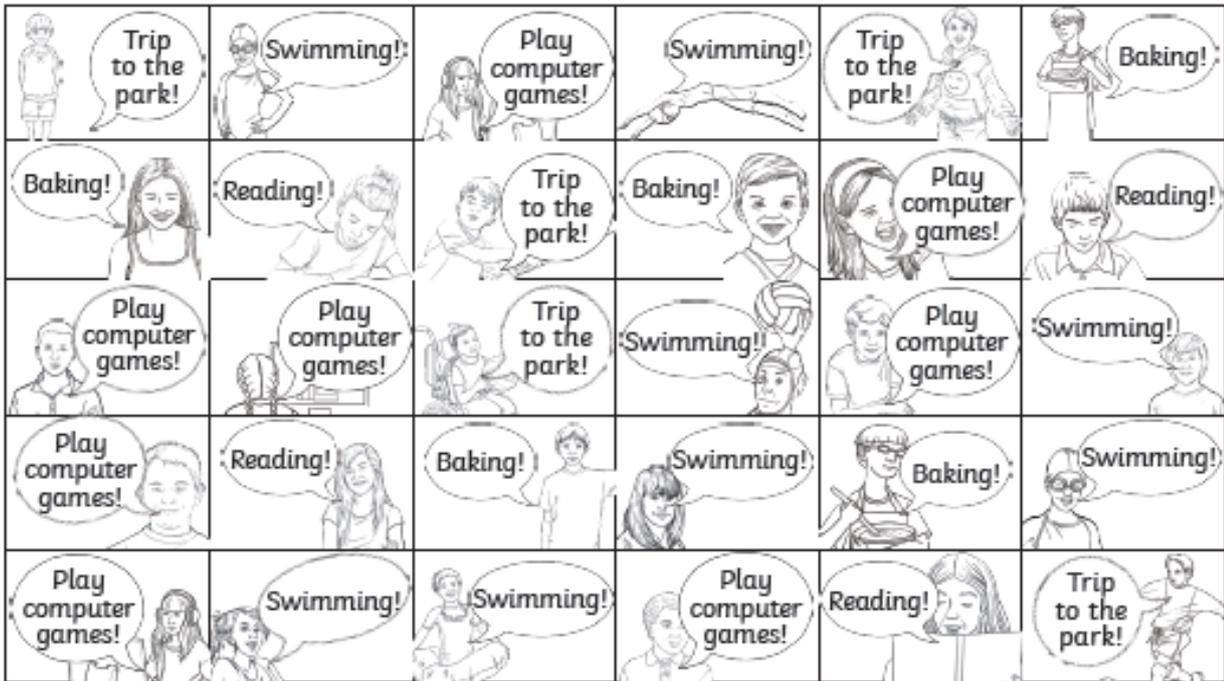
If an angle is **smaller than** 90 degrees it is an **acute** angle. If it is **bigger than** 90 degrees it is an **obtuse** angle.

Use this to help you decide whether the angle is acute, obtuse or a right angle. Then use either <, >, = to compare the two.

The first one has been done for you.

Statistics

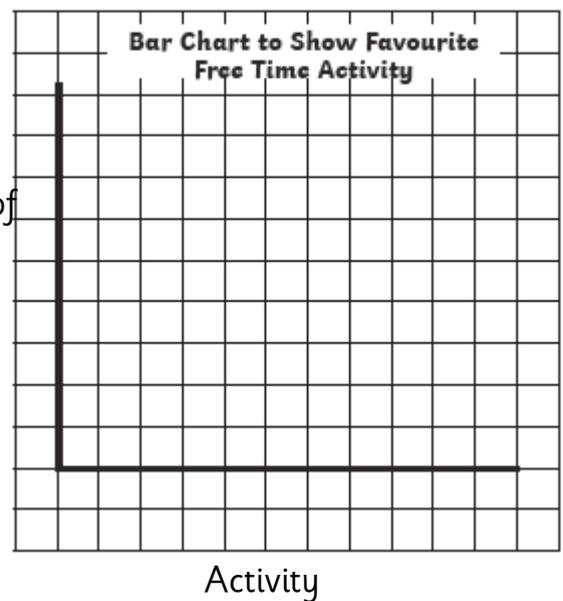
Can you complete the tally chart and create a graph using the information given?



Use the tally chart to record how many children do each activity.

Activity	Tally	Total
Swimming		
Trip to the park		
Play computer games		
Baking		
Reading		

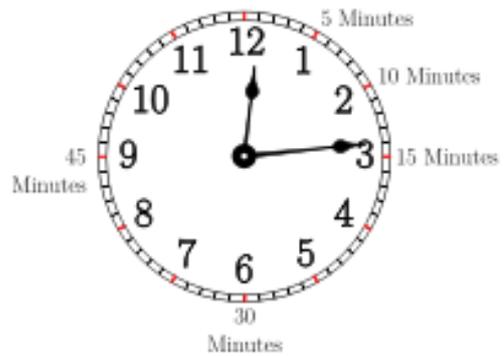
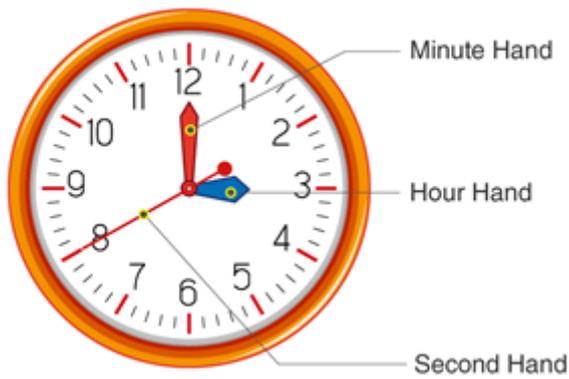
Number of children



Now use this information to answer some questions:

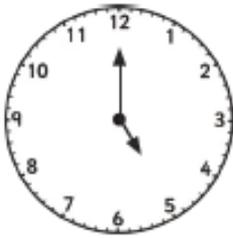
1. How many children take part in swimming?
2. How many children take part in reading and baking altogether?
3. How many children are there altogether?
4. Which activity has the most children?

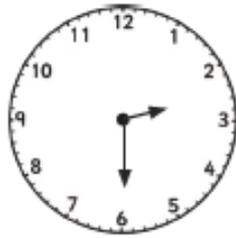
Time



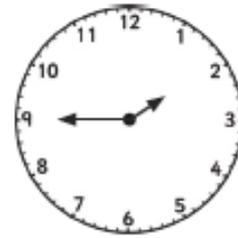
"12:14"

Write the time shown on each clock.

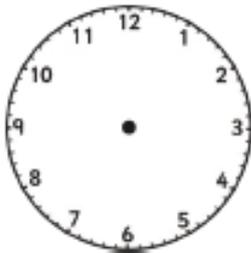




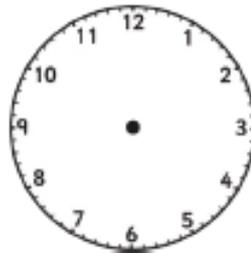




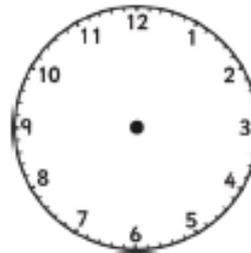
Draw the time on each clock.



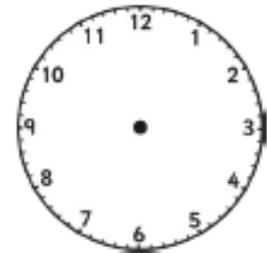
15:00



18:30



23:15



13:45

1. If I set off to school at 8:00am, and it takes 20 minutes to walk what time do I arrive at school?
2. It takes Sami 30 minutes to watch his favourite TV show. What time does his show finish if he starts to watch it at 13:30?
3. Musa spends 15 minutes doing his hair. He needs to leave home at 09:30. What is the latest time he can start doing his hair?