

Mathematics

Entry 2



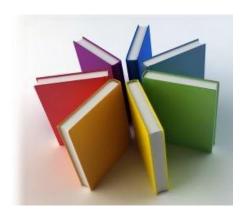
Diagnostic Assessment





This assessment will help you and your tutor find out what you can do and what you need to work on.

1) a) How many books are in the picture?



b) How many glasses of orange are in the picture?



Total 2



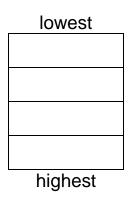
2)	a)	Put the numbers in order from the lowest to the highest.
,	,	<u> </u>

37

16

72

61



b) What is the missing number?

18 20

....

24

26

28

c) What is the next number?

5

7

9

11

13

Total 3



3) Work out the answers.

d)
$$63p - 49p = __p$$

Total 4

4) Fill in the missing numbers or signs to make these sums correct.



5)	Work	out the	answers
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a) 5 times 3 =

b) There are 4 tomatoes in one pack. How many tomatoes in 3 packs?

____ tomatoes

c) What is double 4?

Total 3



a) 18 eggs

_____ eggs

b) 34p

_____р

c) 55 cm

____ cm





7)	Which s	ymbol would	you use	instead	of the	word i	n bold?
,		,	,				

Circle your answer.

$$+ - X =$$

c) The shop sold 12 snack bars in the morning and another 3 snack bars in the afternoon.

How many snack bars did they sell in total?

You may use a calculator for this question.

Tick the correct calculation below.

$$12 - 3 = 9$$

$$12 \times 3 = 36$$

$$12 + 3 = 15$$



8)	Estimate the	cost and choose	ves or no to the	questions below

a) I want to buy 3 magazines at £4.00 each. Can I buy them with £10?

Yes/No

b) Holly goes to a concert and buys some gifts.

She has £20 to spend. Can she buy all three gifts?



Yes/No

Total 2	
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9) a) Olivia made 26 cakes for the party. After the party there were only 6 left. How many cakes had been eaten?

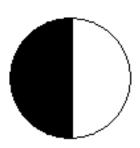
b) I think of a number and then add 3. The answer is 9. What is my number?

Total 2	
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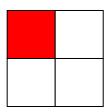
10) a) Circle your answer.

The shaded area is $\frac{1}{4}$ $\frac{1}{2}$ $\frac{3}{4}$ of the circle.



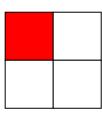
b) Circle your answer.

The shaded area is $\frac{1}{4}$ $\frac{1}{2}$ $\frac{3}{4}$ of the square.



c) Circle your answer.

The shaded area is:



a quarter half three quarters

Total 3



11) a) Jody has 10 daffodils. What is half of 10?



- b) Twenty people are divided into two equal groups. How many in each group?
- c) You are asked to share 8 oranges equally between 4 people.How many oranges will each person get?

Total 3

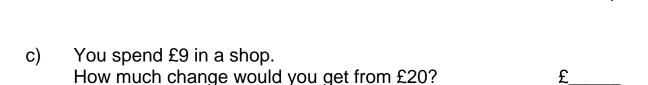
12) How much will you need to make up £1?



13) a) How much would it cost for a bag of crisps and a drink?



b) A newspaper costs 92 pence.How much change would you get from a £1 coin?



Total 3



14)	a)	What is the name of the third month of the year?	

b) Write the following month in full.

Nov_____

23 April 2012

c) Which of the following is the same as the date shown above?

23/06/12 20 Apr 12 10/23/4

23/4/2010 23-4-76 11/4/23

2 - 3 - 12 23/08/09 23/04/12

Total 3



b)

15) Draw a line to connect each clock to the **correct** time in words.

half past three

three o'clock

one o'clock

quarter past nine

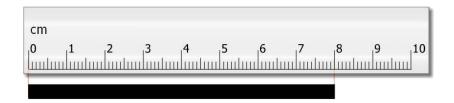
quarter to five

quarter past six

Total 3



16) a) What is the length of this line?



____cm

- b) 1m = ____cm
- c) cm is short for:
 metre kilometre centimetre litre centilitre

 Circle your answer.

Total 3

- 17) a) A bag of sugar weighs:
 10 gram 1 kilogram 5 kilogram 10 kilogram

 Circle your answer.
 - b) What is the abbreviation (short form) of the word kilogram?

Total 2



18) a) How many litres does the jug hold?



b) Do you think **this** cup will hold a litre of milk?



Total 2



19)





- a) What is the temperature for July? _____
- b) Is it hotter in August or October?
- c) This is the weather forecast for tomorrow. Do you think you would need a coat?



Yes/No

Total 3



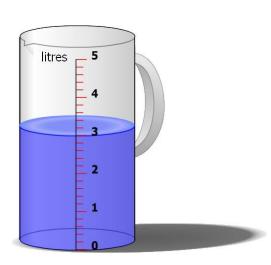
- 20) Look at the scale.
 - a) Use the scale to complete the sentence.



The car is travelling at nearly _____ m.p.h. (miles per hour)

b) How much water is in the jug?

_____litres



c) What is the weight shown?

_____ kilograms







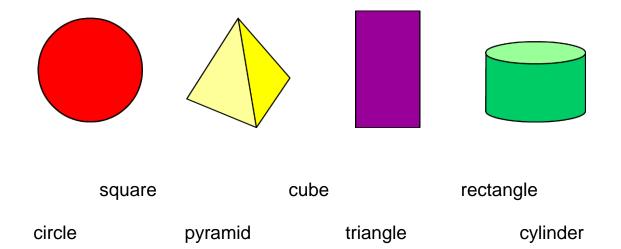
21) What could you use to measure the length of a table?

Circle your answer.



Total 1

22) Match each shape to its name.



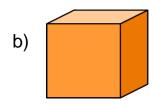
Total 4



23) a)



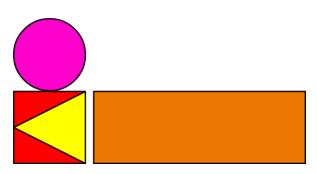
A square has _____ sides and ____ corners.



A cube has ____ corners.

A cube has _____ faces.

24) Choose one of the following options to complete each sentence.



above below inside on the left of on the right of

- a) The circle is _____ the square.
- b) The triangle is _____ the square.
- c) The square is _____ the rectangle.

Total 3



25) Circle the shapes below that have right angles.









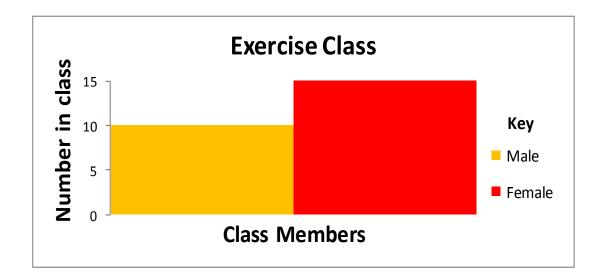
Total 2



26) Use the calendar below to answer the questions.

February					
Mon	1	8	15	22	
Tues	2	9	16	23	
Wed	3	10	17	24	
Thurs	4	11	18	25	
Fri	5	12	19	26	
Sat	6	13	20	27	
Sun	7	14	21	28	

- a) What day is 25th of February?
- b) Every 4 years February has 29 days. What day of the week would 29th February be? _____day



c) How many females are there in the exercise class?

Total 3



27)



a) Circle the correct words to complete the sentence.

This bar chart shows how many (people / exercise / class / number) there are in the (people / graph / number / class).

b) How many more females than males are there in the class?



28) a) Tick every young person who is aged 16, 17 or 18 and who lives in Wrexham.

Name	Town	Age	✓
Eugene Smith	Sutton	18	
Thomas Brown	Wrexham	17	
Paula Davies	Wrexham	20	
Tony Adams	Ripley	16	
Ajit Singh	Wrexham	18	
Su Ling	Dover	16	
Ann Jones	Rotherham	21	
John Moore	Dover	18	

b)	Which of the following could be made from wood and are found in
	most homes?

potatoes	
a cabbage	
a door	
a computer	
a table	
a person	

Total 4	4
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- 29) You are to carry out a survey on 'Where people **went** on their **last** holiday'.
 - a) What would be the most suitable question to ask? **Tick your** answer.

How many holidays have you had?

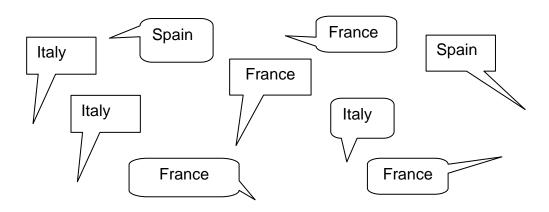
Do you stay in a hotel?

Where did you go on your last holiday?

Have you been to Spain?

These are the results of the survey 'Where people **went** on their **last** holiday'.

b) Count each holiday destination and enter the results into the table.



Destination	Tally
Italy	
Spain	
France	

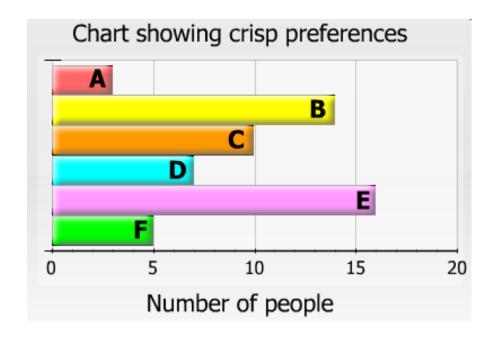
Total 4



30) Use the information from the tally chart to work out the crisp flavours shown in the bar chart.

Tally Marks

Barbecue #	Ш	Ш	Ш	ļ	Prawn Cocktail			###
Cheese and onio	n			Ш	Plain		Ш	l II
Salt and Vinegar		H	#	Ш	Chicken	Ш	Ш	Ш



a) Which bar shows plain crisps?

b) Which bar shows chicken crisps?

Total 2