1) The distance from the earth to the moon is about 384,000,000 metres. Write this distance in words.

……

……

2) The distance from the earth to the moon could also be given as 250,800 miles. Write this distance in words.

……

……

……

3) Look at the train timetable below.

Chester	0555		0630		0700	
Bache	0558		0633		0703	
Capenhurst	0604		0639		0709	
Ellesmere Port		0617		0647		0717
Overpool		0620		0650		0720
Little Sutton		0622		0652		0722
Hooton	0609	0626	0644	0656	0714	0726
Eastham Rake	0611	0628	0646	0658	0716	0728
Bromborough	0613	0631	0648	0701	0718	0731
Bromborough Rake	0615	0633	0650	0703	0720	0733
Spital	0617	0635	0652	0705	0722	0735
Port Sunlight	0619	0637	0654	0707	0724	0737
Bebington	0621	0639	0656	0709	0726	0739
Rock Ferry	0624	0642	0659	0712	0729	0742
Green Lane	0627	0644	0702	0714	0732	0744

a) I need to catch a train from Hooton to ensure I arrive at Port Sunlight by 0711. What time does the latest train I could catch leave Hooton?

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b) How many minutes does the train's journey from Bache to Rock Ferry take?

……

4) I buy 12 items which cost £23.55 each.

a) What is the total cost?

……

……

b) If you worked out the answer to part (a) on a calculator, what would the display show?

……

5) I live 7.2 km from St. Anselm's College.

a) How far is this in metres?

……

b) I used to live only 600 metres from St. Anselm's College. How many times further away do I live now?

……

……

c) A kilometre is $\frac{5}{8}$ of a mile. How many miles away from St. Anselm's do I live now?

……

……

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6) I start playing football at 7:30pm and stop playing at 8:15pm. I then start playing football again at 8:30pm and finish playing at 9:15pm.

a) For how many hours and minutes was I playing football?

……....

……

b) For how many minutes between 7pm and 9pm was I **not** playing football?

……

……

7) Solve the following:

a) I think of a number, multiply it by 8 and subtract 24. The result is 8. What was the number I first thought of?

……

……

b) There is a number, x. When I add 8 to x then multiply the answer by 3, the overall result is the same as just multiplying x by 6. What is x?

……

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8) Write the next two numbers for each of the following sequences.

a) 3 5 7 9 11 ... ...

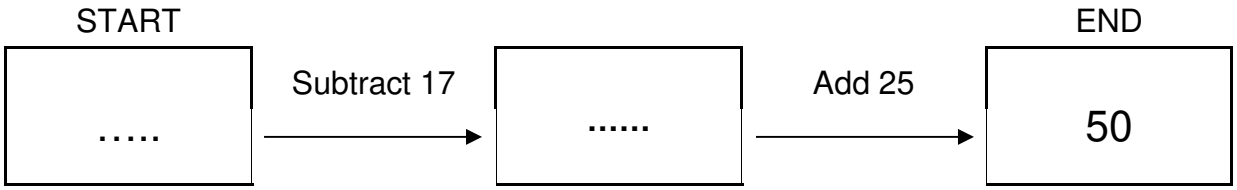
b) 16 8 4 2 1 ... ...

c) 4 5 7 10 14 … …

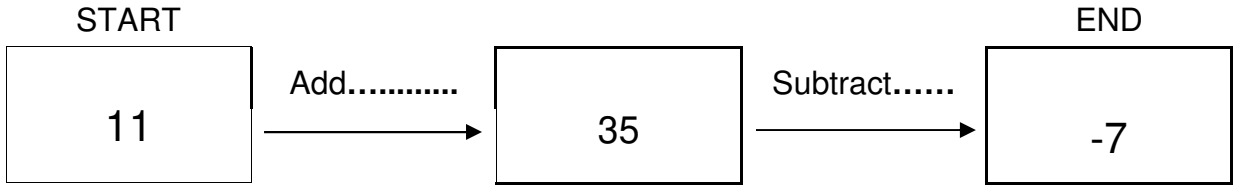
d) 1 4 9 16 25 … …

9) Complete the spaces shown by dotted lines below.

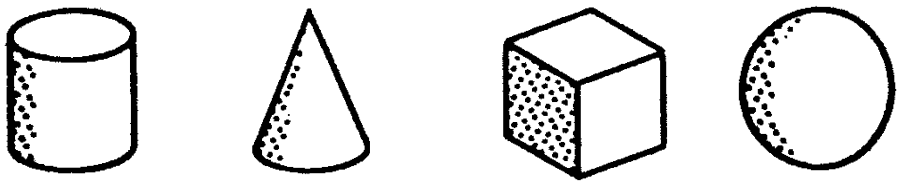
a)



b)

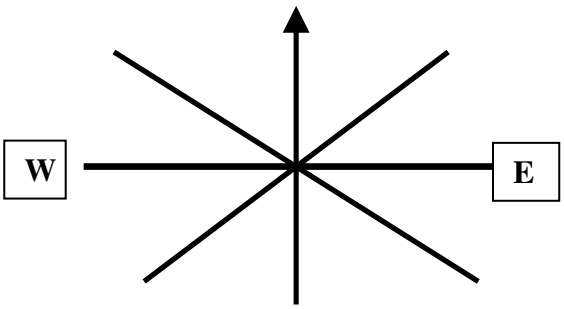


10) Here are some solid shapes. Write the name of each solid underneath it.



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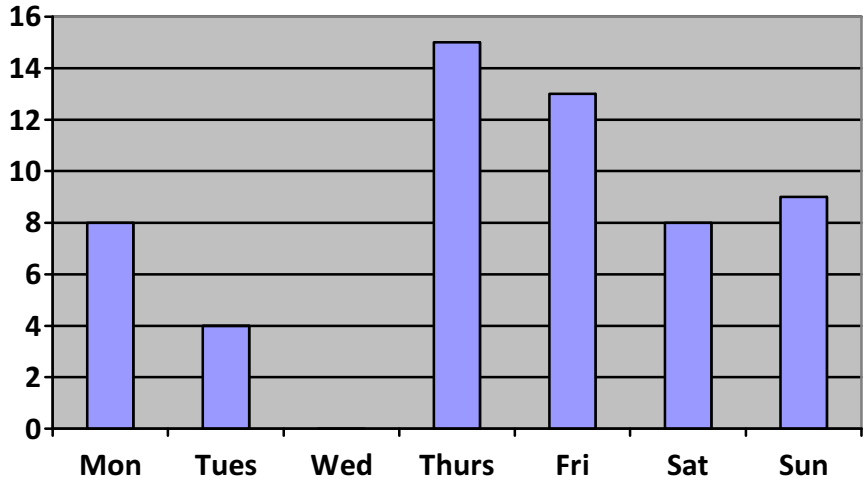
11) Complete the diagram to show the 8 points of the compass.



Imagine you are facing south-west. If you turn through 135° clockwise, which way are you then facing?

.....

12) A shop's car park has a certain number of yellow cars parking there each day. The number of yellow cars parked each day is shown in the chart below.



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a) How many yellow cars were parked on Thursday?

……

b) How many yellow cars were parked for the whole week?

……

c) On which day is the shop closed? Explain how you know.

……..

……..

13) Tickets for the cinema cost £7.20 for adults and £4.80 for children.

a) How much would it cost for 6 adults to go to the cinema?

.....

.....

……..

b) How much would it cost for 3 adults and 4 children?

.....

.....

……....

c) How many children can someone buy tickets for if they have £53?

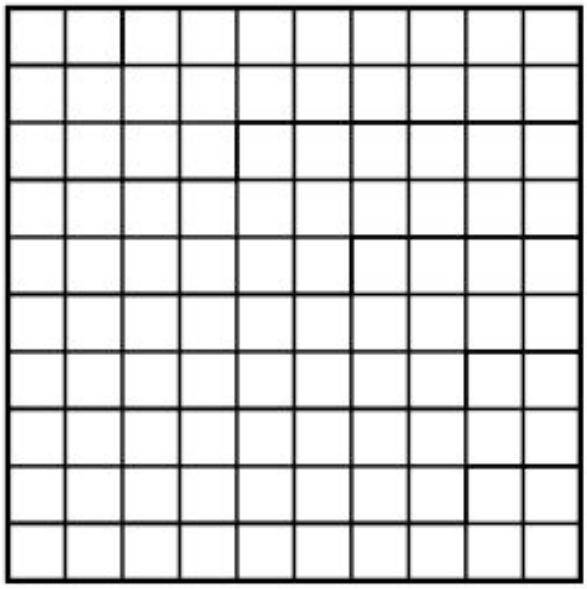
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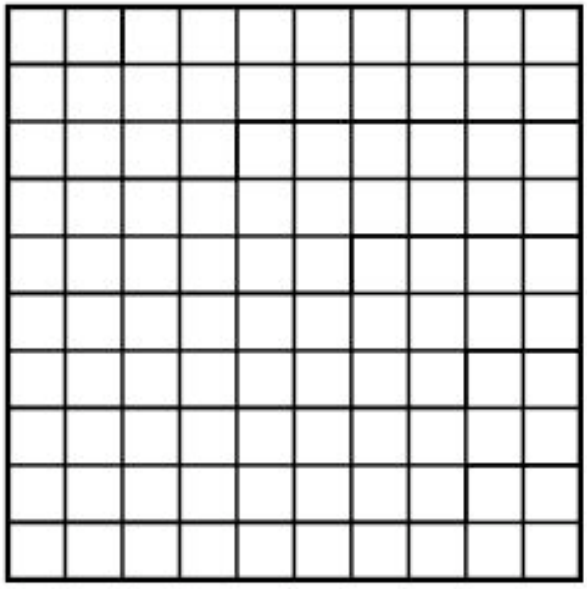
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14) Answer the questions on the next page using the grids below.





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a) Shade the top grid so that one fifth is shaded.

……

b) Shade the bottom grid so that 44% is shaded.

……

c) What **fraction** of the bottom grid have you shaded? Give your answer in its simplest form.

……

15) In a tin of Quality Street, 15% are Toffee Pennies. If the tin has a total of 120 chocolates, how many are **not** Toffee Pennies?

……..

……..

16) Round each of the following numbers to the accuracy given in brackets.

a) 53.246792 (nearest whole number)

……

b) 1465124 (nearest thousand)

……

c) 32.593490 (nearest tenth)

……

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17) Write the following numbers in order of size, starting with the smallest.

0.12 0.1 0.101 0.102 0.022

.....

18) If a fair die is rolled and a coin tossed, which of the following outcomes is **most** likely? Circle the letter of your answer.

a) A 6 on the die and heads on the coin.

b) An even number on the die and heads on the coin.

c) An odd number on the die and heads or tails on the coin.

d) A score of 1, 2, 3, 4 or 5 on the die and tails on the coin.

19) I have a bag containing red, blue and white counters. A counter is chosen at random from the bag. There are 11 white counters in the bag and the probability of choosing a white counter is ¼. The bag contains 18 red counters. How many blue counters are there in the bag?

……

……

……

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20) Which of the following distances is the most likely length of a car? Circle the letter of your answer.

a) 80 cm

b) 0.9 mm

c) 7 m

d) 11 feet

21) A calculator normally costs £6.40. It is offered in a sale at 45% off. What is the sale price?

.....

.....

22) Look at the list of numbers below.

2 5 7 16 43 64 66 81

a) Which three of the numbers have an **odd** number of factors?

……

b) Numbers with an **odd** number of factors have a special name. What is it?

……

c) Which of the numbers have exactly two factors?

……..

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d) Numbers with only two factors have a special name. What is it?

……..

23) Number A = 9 × Number B and Number B = 4 × Number C

a) What fraction of Number A is Number B?

……

b) How many times bigger than Number C is Number A?

……

c) What fraction of Number B is Number C?

……

d) Give three possible values of the numbers.

A = B = C =

24) On the 2nd December 2011 Catherine was three years older than Elizabeth who was seven years older than Lily.

On the 2nd December 2012 Catherine is three times Lily's age.

How old were the three girls on 2nd December 2012?

……

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