ENTRY LEVEL CERTIFICATE MATHEMATICS 5930

SAMPLE WORKSHEETS

Version 1.1

These worksheets have been produced to provide examples of the type of resource used for the class work components.

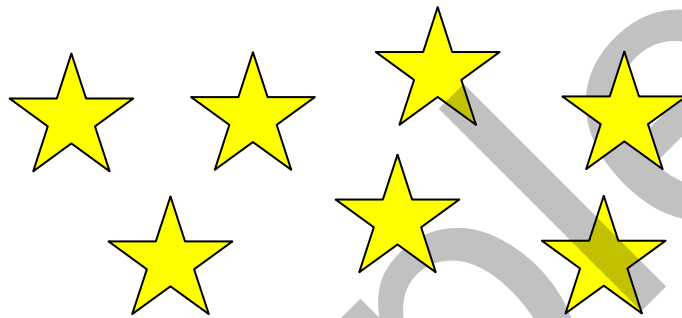Count reliably up to 20 items   Component 1   Entry 1.1

1   Count how many stars.
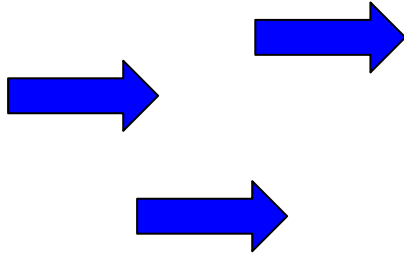
Answer …………………… stars

2   How many faces are there?
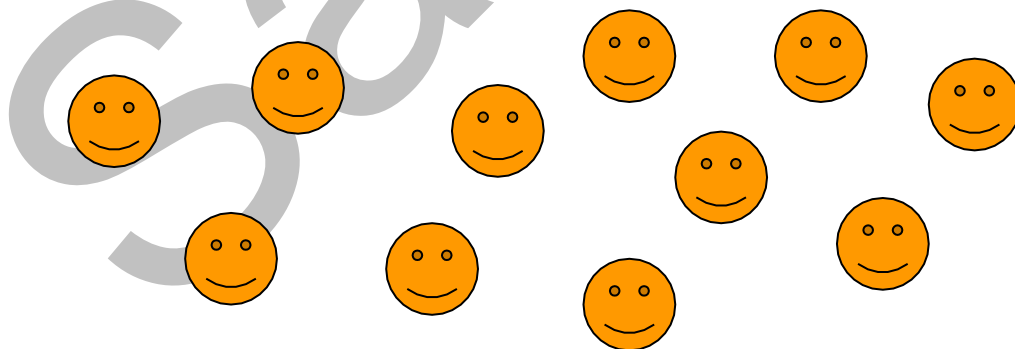
Answer …………………… faces

3 Draw some more arrows so there are 6 arrows altogether.

4 Danny has 5 pencils in his pencil case.

Draw the pencils in the case.

5 Draw 10 tennis balls below.

1.1

Component 1 : properties of number

Order and compare numbers up to 1000	Component 1	Entry 3.2
Read, write, order and compare numbers up to 100		Entry 2.1
		Entry 1.2
Read, write, order and compare numbers up to 20, including zero		GCSE ref N1

1   Write the following in words:

(a)

643   ....

(b)

321   ....

(c)

860   ....

2   Write the following as numbers:

(a)

Two hundred and thirty six   ....

(b)

Five hundred and eighteen   ....

(c)

Nine hundred and five   ....

3 Arrange the following sets of numbers into ascending order, smallest to largest.

(a) 25, 125, 109, 256, 902, 657, 213, 19, 60, 300

…….. …….. …….. …….. …….. …….. …….. …….. …….. ……..

(b) 1000, 51, 480 611, 18, 507, 31, 306, 615, 909

…….. …….. …….. …….. …….. ……. ……. …….. …….. ……..

4 Arrange the following set of numbers into descending order, largest to smallest.

(a) 12, 402, 605, 15, 108, 545, 990, 906, 901, 91

…….. …….. …….. ……. ……. ……. …….. ……. …….. ……..

(b) 73, 100, 514, 788, 473, 718, 506, 601, 19, 2

…….. …….. …….. ……. …….. ……. …….. …….. …….. ……..

5 Put a circle round the largest number.

304   17   129   95   340   618   923   329   65

3.2		2.1		1.2	

![AQA logo]

Component 2 : the four operations

Add and subtract using three-digit numbers	Component 2 Entry 3.1
Subtract one number up to 100 from another	Entry 2.2
Add whole numbers with a total up to 100	Entry 2.1
Subtract one number up to 20 from another	Entry 1.2
Add two whole numbers with a total up to 20	Entry 1.1
	GCSE ref N2

1   Work out the answers to:

(a) 312 + 462 = ...   **(b)** 105 + 214 = ...

(c) 205 + 577 = ...   **(d)** 560 + 273 = ...

(e) 678 + 853 = ...   **(f)** 874 + 189 = ...

(g) 256 − 130 = ...   **(h)** 864 − 353 = ...

(i) 890 − 437 = ...   **(j)** 702 − 161 = ...

(k) 523 − 347 = ...   **(l)** 700 − 169 = ...

(m) Add 653 to 152

....

(n) Find the total of 834 and 49

....

(o) Take 203 from 920

....

(p) From 925 take 208

....

(q) Find the sum of 534 and 218

....

(r) 735 plus 195

....

(s) 400 take away 175

....

(t) What is the difference between 109 and 237

....

3.1		2.2		2.1		1.2		1.1	

Component 4 : money

Add amounts of money and give change	Component 4	Entry 3.6
Calculate with amounts of money in pence up to £1 and whole pounds up to £100		Entry 2.5
Add up to 20 coins		Entry 1.3
		GCSE ref N2, N13, R7, G14

Fill in the missing information.

1

You have and you spend

How much change do you get?   …………………………………………

2

School pencils cost 8 p and you give to the teacher.

How much change do you get?   …………………………………………

3

Dave has saved

He needs to save £ 10 for a CD

How much more does he need?

…………………………………………

4

A book costs £6. You already have

How much more do you need?

……………………………………...

5

Toffees cost each

How much do 2 toffees cost?

……………………………………

6 Ann spent £2 on a magazine.

What change will she get from £10?

……………………………………

7 John spent £3 on a new pencil case.

How much change did he get from £5?

……………………………………

8 Bob gets £5 for his paper round each week.

How much does he get for 2 weeks?

……………………………………

9 Kay has £10 and spends £3.

How much has she got left?

……………………………………

10 Lee has £5 and spends £1 on a bottle of water.

How much has he got left?

……………………………………

3.6		2.5		1.3	

Work out half of an even number up to 20   Component 3   Entry 1.3

GCSE ref N12, R6

Work out:

1 Half of 6 ....

2 Half of 14 ....

3 Half of 8 ....

4 Half of 12 ....

5 Half of 10 ....

6 Half of 2 ....

7 Half of 20 ....

8 Half of 4 ....

9 Half of 16 ....

1.3	

Know that: 1 week = 7 days; 1 day = 24 hours;   Component 5   Entry 2.2
   1 hour = 60 minutes; 1 minute = 60 seconds

1   Complete the following:

(a)
        14 days = ... weeks

(b)
        28 days = ... weeks

(c)
        3 weeks = ... days

(d)
        5 weeks = ... days

(e)
        1 day = ... hours

(f)
        3 days = ... hours

(g)
        48 hours = ... days

(h)
        72 hours = ... days

(i)
        2 hours = ... minutes

(j)
        5 hours = ... minutes

(k)
        120 minutes = ... hours

(l)
        240 minutes = ... hours

2 A boat journey across the Red Sea takes exactly **one whole day**.

How many hours is the journey?

………………………………………

3 Peter's holiday lasts for 26 days.

How long is this in weeks and days?

……………........................ weeks   ………….......................... days
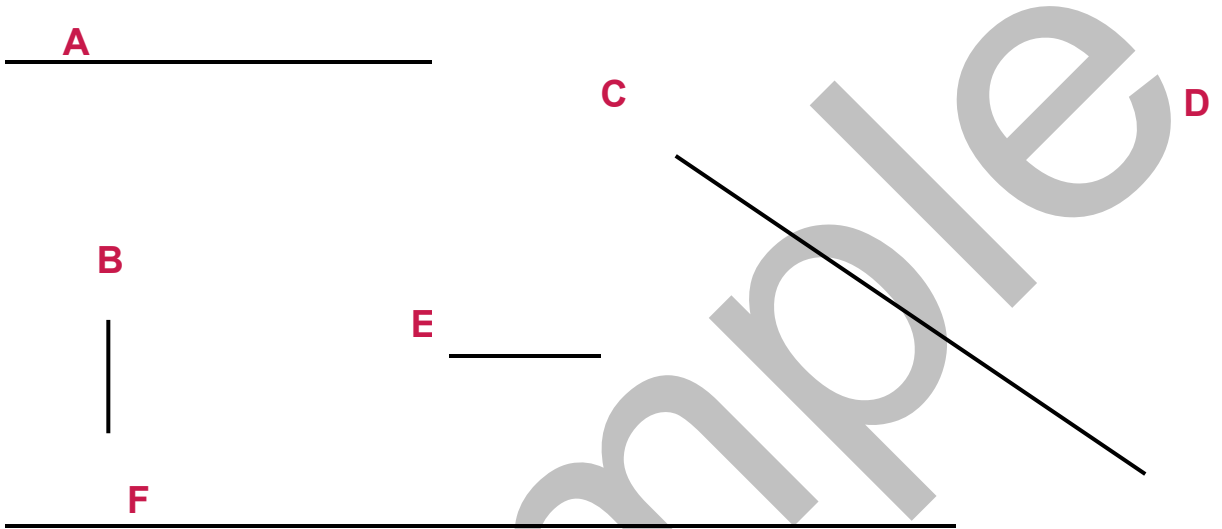
2.2	

Measure or draw a length using a ruler   Component 6   Entry 2.4

Entry 1.2

GCSE ref N13, G14, G15

1   Measure the lines below in cm

A is ....   B is ....

C is ....   D is ....

E is ....   F is ....

2   Draw a line 10 cm long in the space below.

3   Draw a line 7 cm long in the space below.

2.4		1.2	

Estimate the weight, capacity or length of given items   Component 6   Entry 2.5

1   For each pair tick (✓) the heaviest object.

(a)

(b)

(c)

(d)

2 Tick (✓) the animal that weighs the least.

Horse   **Mouse**   **Cat**

3 The car is 5 metres long.

Estimate the length of the bus.
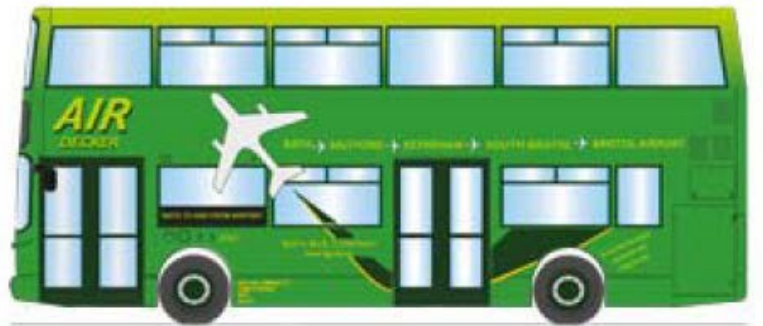
5 metres   ....**metres**

4 Which container holds the most?

Tick (✓) your answer

2.5

Identify whether an angle is less or more that a right angle   Component 7   Entry 3.4

1

Look at the angles marked a, and b
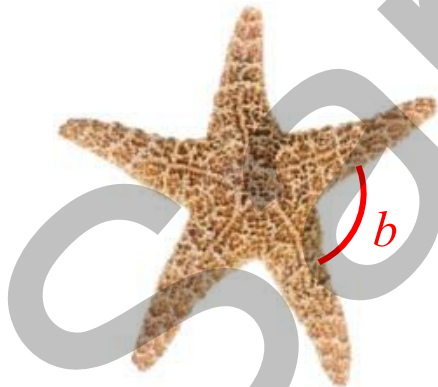
Put a tick (✓) in the correct box.

(a)

a is

smaller than a right angle

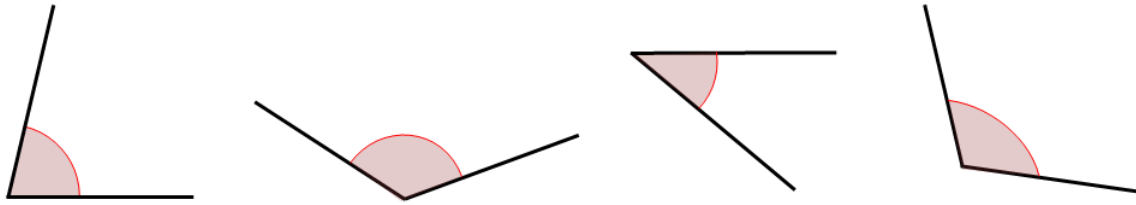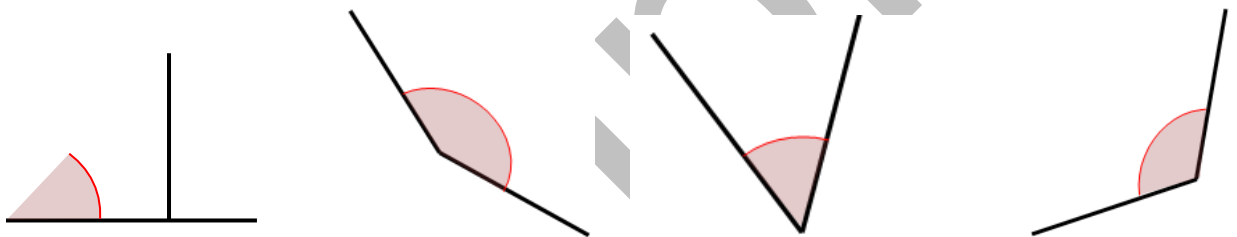larger than a right angle

(c)

b is

smaller than a right angle

larger than a right angle

3 Tick (✓) the angles that are **less** than a right angle.

4 Tick (✓) the angles that are **more** than a right angle.

5 Draw the following angles.

Less than a right angle	**More** than a right angle

3.4

Construct and interpret pictograms where one picture represents more than one item

Component 8   Entry 3.2

Construct and interpret pictograms where one picture represents one item

Entry 2.4

GCSE ref S2

1 The table below shows the type of vegetables teenagers like.

Type of Vegetable	Frequency
Peas	10
Carrots	16
Cauliflower	8
Sweetcorn	11
Cabbage	2

Display this data in a pictogram.

Use 1 symbol to show two vegetables.

2 The table below shows the favourite colours of a class of nursery children.

Colour	Frequency
Blue	15
Red	20
Green	10
Yellow	10
Pink	5
Purple	25

Display this data in a pictogram.

Use 1 symbol to show 5 of each colour.

3 This pictogram shows the drinks that teenagers prefer.

Cola

Lemonade

Orangeade

Limeade

Water

3 (a) Which is the favourite drink?

....

3 (b) Which drinks got the same number?

....

3 (c) How many teenagers liked fruit based drinks?

....

3.2		2.4	