SAMPLE PAPER

CONVENT OF THE SACRED HEART- JUNIOR SCHOOL

YEAR 6   Mental Mathematics   TIME: 15 mins

(20 marks)

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Mental Question Paper

Note:- *Each question must be read twice with a special emphasis on certain key words. These key words are typed in **bold** print. The reader must not reword the questions or prompt the children in any way. The mental test must be read as follows:*

You have 5 seconds to work out each of these questions.

1. What is **half** ninety?
2. How many **degrees** are there in **one right angle**?
3. What is **sixty take away ten**?
4. What is **one more** than **nine hundred and ninety-nine**?
5. What is seven **multiplied** by nine?

You have 10 seconds to work out each of these questions.

6. Write this number in **digits**: **ten thousand and ten**.
7. How many **grams** are there in **half a kilogram**?
8. What is the **area** of a **square** with sides measuring **five centimetres**?
9. What must be **added** to **five hundred and seventy** to make **one thousand**?
10. How many **lots** of **four** are there in **twenty**?
11. Which of these numbers is **exactly divisable by one hundred: six hundred and forty or three hundred.**
12. What is **sixty-seven point four three divided by ten**?
13. What is the **sum** of the **three angles** of any **triangle**?
14. Which of these is a **reflex** angle: an angle of **one hundred degrees** or an angle of **two hundred degrees**?
15. Calculate **three quarters** of **sixteen**?

You have 20 seconds to work out each of these questions.

16. There are **three hundred and sixty children** in a school. **Seventy** are boys. How many **girls** are there?
17. What **change** will you get from **one euro** when you spend **forty-eight cents**?
18. Forty-one **multiplied** by seven is two hundred and eight-seven. What is two hundred eighty seven **divided** by seven?
19. The **area** of rectangle is **eighty** square centimetres. What is the **length** of the rectangle if the **breadth** is eight centimetres?
20. What is the **angle** in **degrees** from North **clockwise** to South West?

SAMPLE PAPER

_____

YEAR 6	Main Paper	TIME: 1hr 30 mins

1. Round **7 6 8 4** to the nearest: (3 marks)

a) thousand _____ b) hundred _____ c) ten _____

2. Circle the numbers whose nearest whole number is **8** (2 marks)

a) 8.17 b) 7.06 c) 7.75 d) 7.49

3. Round to the nearest **whole** unit. (2 marks)

Example 7.3 kg = 7kg

a) 5.9 m = _____m

b) € 29.43 = € _____

c) 64.350 litres = _____ litres

d) 13.850 km = _____ km

4. Write this number: (1 mark)

6 in the hundredths place
9 in the units place
4 in the tens place
5 in the tenths place
1 in the hundreds place   **Ans:** _____

Work these out. (8 marks)

(Use the space underneath each sum to show your working)

5) 1529 + 67 + 433 = _____   6) 4107 – 39 = _____

7) 89 × 8 = _____   8) 523 × 60 = _____

9) 564 × 300 = _____   10) 49 × 38 = _____

11) 78 ÷ 100 = _____   12) 4.35 × _____ = 435

13. Write these numbers in order largest to smallest.   (2 marks)
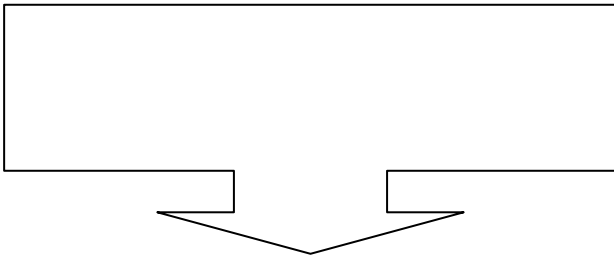
719   0.719   7.19   71.9

_____   _____   _____   _____

14. Look at this shape.   (2 marks)

There are _____ horizontal lines.

There are _____ vertical lines.

15. Use these numbers to finish off these calculations correctly.

Each number can be used only once.   (6 marks)

10	16	17	18	28	31

a) _____ + _____ = 35

b) _____ + _____ = 44

c) _____ - _____ = 21

16. Work out each sum to find out which answer is closest to 325.   (1 mark)

78 × 4   53 × 6   62 × 4

The multiplication closest to 325 is   ×

17. MEASUREMENT

1. Choose the correct **measurement** for each.   (4 marks)
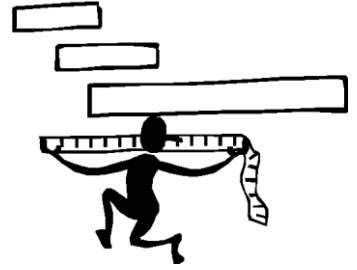
   a) the length of a room _____ (5m, 5cm, 5km)

   b) the length of a biro _____ (15 mm, 15cm, 15m)

   c) the distance from Valletta to Rabat _____ (10mm, 10m, 10km)

   d) the height of a girl _____ ($1\frac{1}{2}$ cm, $1\frac{1}{2}$km, $1\frac{1}{2}$m)

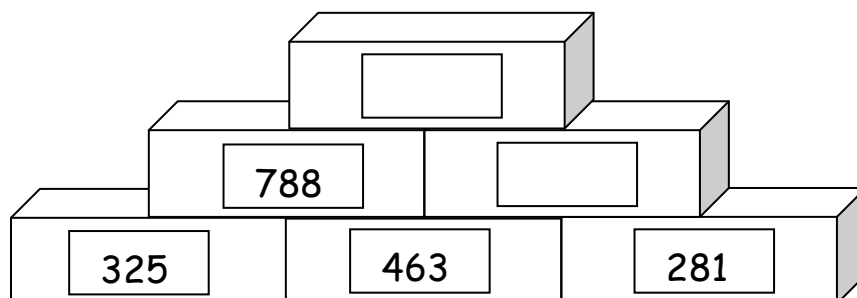**2.** This basket holds 1 kg of fruit.   (3 marks)

   a) $\frac{1}{2}$ a basket would hold _____ g of fruit.

   b) $\frac{1}{4}$ of a basket would hold _____ g of fruit.

   c) $\frac{3}{4}$ of a basket would hold _____ g of fruit.

3. Convert: (4 marks)

a) 5473 g = _____kg

b) 6 cm = _____ m

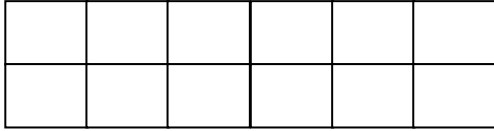c) 43 ml = _____ litres

d) 15 cm = _____ mm

18. WORK OUT.

The number in each block is the total of the numbers in the two blocks directly below. Fill in the missing numbers.   (2 marks)

	788	
325	463	281

19. FRACTIONS

1.   Shade ⅔ of this shape.   (2 marks)

2. What is: (2 marks)

   a) $\frac{1}{9}$ of 63 =   b) $\frac{3}{6}$ of 42 =

3. Write these fractions in their simplest form.   (2 marks)

   a) $\frac{12}{16}$ =   b) $\frac{28}{48}$ =

4. Compare these fractions. Put < , > or =   (2 marks)

   a) $\frac{3}{8}$ ☐ $\frac{1}{2}$

   b) $\frac{4}{5}$ ☐ $\frac{2}{3}$

20. ANGLES & TRIANGLES

1. Look carefully at each triangle and their 3 angles.
   Write the correct name for each triangle.   (4 marks)
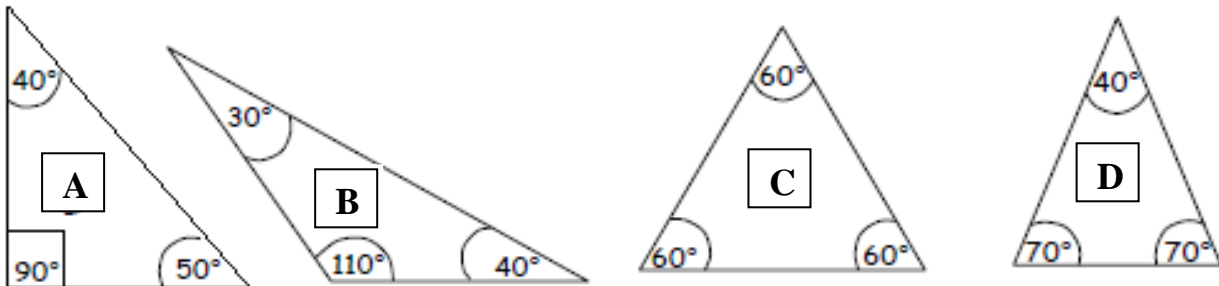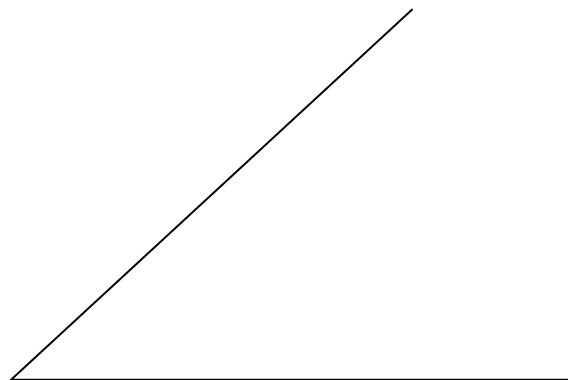

A _____   B _____

C _____   D _____
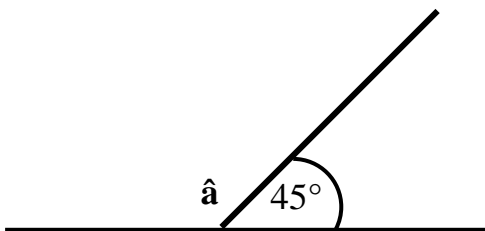
2. Measure this angle   (2 marks)

a)

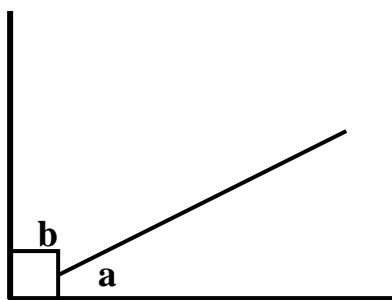< A = _____ Say what type of angle it is _____

3. Calculate these angles: (2 marks)

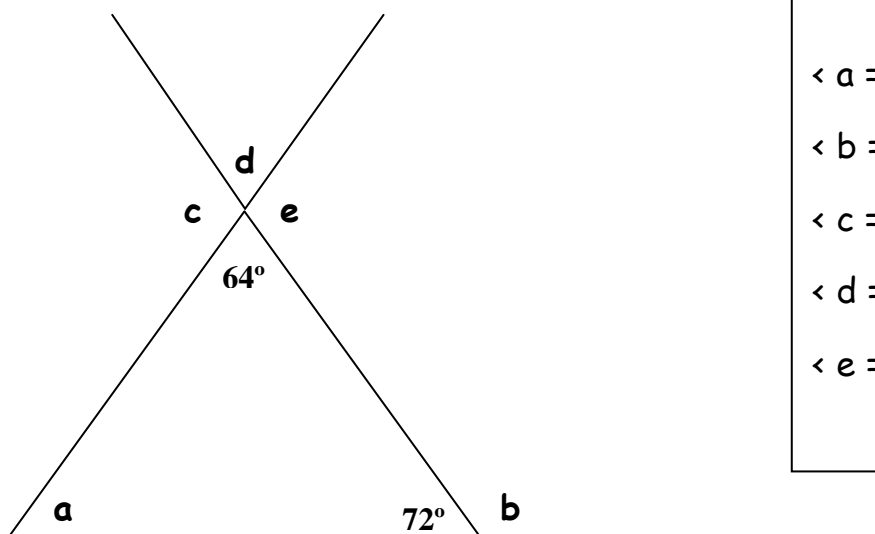a) Calculate â

$$\hat{a} = \underline{\hspace{5cm}}$$

b)

Angle b = 35°
Calculate â

$$\hat{a} = \underline{\hspace{5cm}}$$

4. Find the missing angles. (5 marks)

< a = _____ °

< b = _____ °

< c = _____ °

< d = _____ °

< e = _____ °

21.   A survey was carried out to see which flavour of crisps was their favourite. The results are shown in the bar chart below.   (6 marks)

Favourite Crisp Flavours
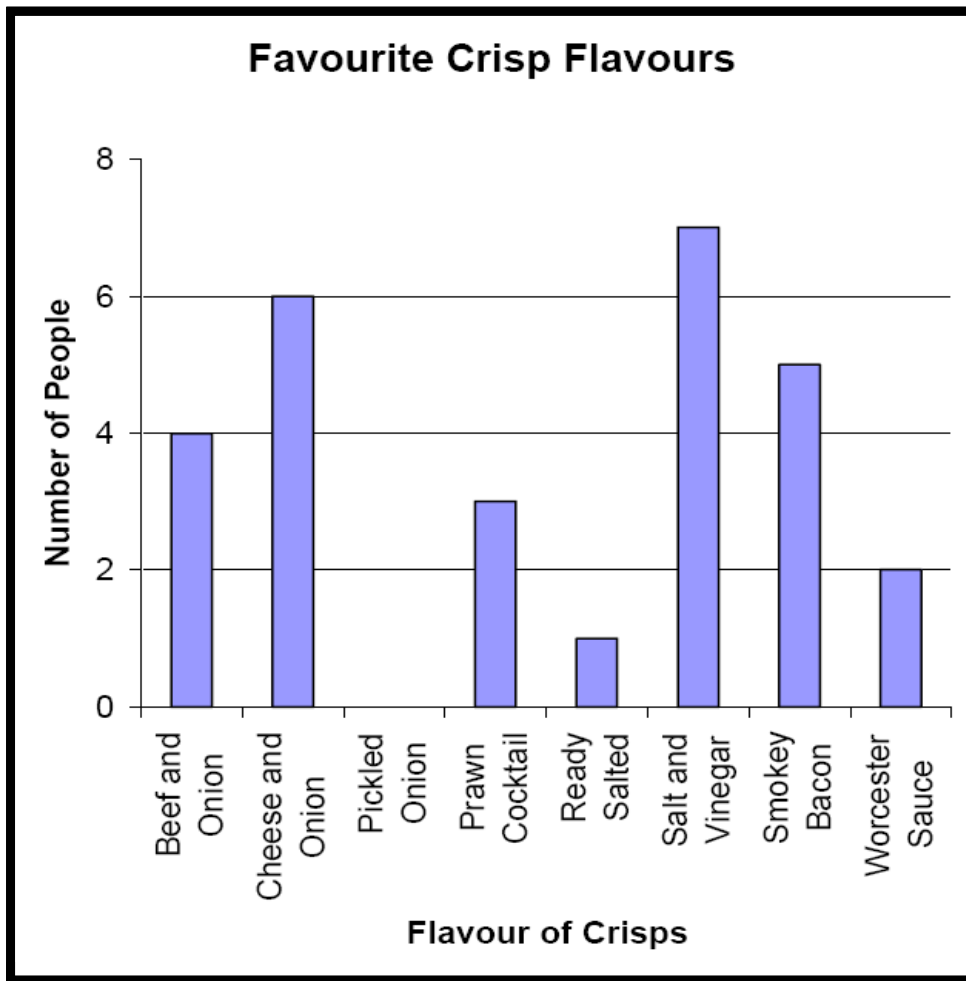
Answer the following questions.

1. How many people said 'Cheese and Onion' was their favourite flavour? _____

2. What was the most popular flavour of crisps? _____

3. What was the least popular flavour of crisps? _____

4. How many people were surveyed? _____

5. How many **more** people preferred 'Cheese and onion' to 'Prawn Cocktail'? _____

6. If each packet of crisps cost 25c, how much would it have cost to buy a packet

    for each person on the survey? _____

22. STORY SUMS

1. A boutique is selling everything at half price.
Look at the original price on these clothes and calculate how much they are
being sold now.   (4 marks)

€ 42

€ 6.90

During the sale, the coat will be sellling at € _____ and the scarf will

be selling at € _____.

2. Samantha prepares fresh orange juice for her family every day.   (4 marks)

   a) She uses 350g of oranges every day.

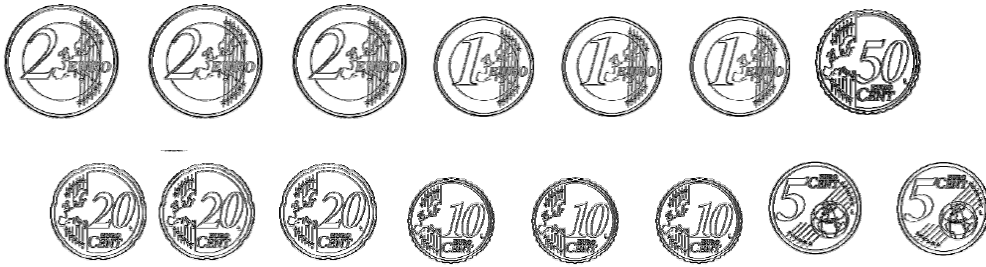   How many grams of oranges does she use in a week?

                                                                Ans: _____

   b) Now give your answer in kilograms   **Ans:** _____

3. Paula managed to save up this money in one week. (5 marks)

How much money did she have? _____

At the end of the week Paula spent <u>all</u> her money and bought 3 of these items.

microphone	fish tank	clown	horse	bear
€ 3.42	€ 3.76	€ 4.12	€ 4.21	€ 2.62

Paula bought the _____ , the _____

and the _____.