Name: _____   Roll No. _____

SIDDEEQ PUBLIC SCHOOL

ENTRY TEST ... **49**   **MATHEMATICS** Max. Marks: **20**   ADMISSION to GRADE: **6**

Checked by	Srv #	Sign:	Rechecked by	Srv #	Sign:	Marks:

1. Complete the following mathematical statements. (1.0×4)

(i) Difference between first composite number and smallest natural number is _____.

(ii)   0.1 + _____ tenths = 1 whole

(iii) 9 999 rounded off to the nearest "*Tens*" is _____

(iv) If 25 pencils costs Rs 250, then the cost of each pencil is _____.

2. Do as directed. (2.0×2)

(i) Divide: 6.24 ÷ 2.6   **(ii) Express two- fifths as percentage .**

3. In Islamabad, the temperature recorded on 4 different days is 16° C , 12° C , 7° C and 9° C respectively . Find the average temperature.   (4.0)

_____

_____

_____

_____

4. Ali bought a box of chocolate weighing 80g. He ate $\frac{1}{8}$ of the chocolate on Monday and 20g of the chocolate on Tuesday.   (4.0)
(a) How much chocolate did he eat on both days?
(b) How much chocolate is left with him?

_____

_____

_____

_____

_____

5. The lengths of the two ribbons are 96*m* and 84*m*, respectively. If Sara wants to cut the ribbons into pieces of equal length without any ribbon left, what will be the maximum length of each piece?   (4.0)

(Use back of the sheet for Q#5)

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Answer Key

ADMISSION to GRADE: 6

MATHEMATICS

</div>

1. (i) 3   (ii) 9   (iii) 10 000   (iv) Rs 10

2. (i)   6.24 ÷ 2.6

Method #1:

$$= \frac{624}{100} \div \frac{26}{10}$$

$$= \frac{624}{100} \times \frac{10}{26}$$

$$= \frac{624}{10} \times \frac{1}{26}$$

$$= \frac{24}{10} = 2.4$$

Method #2:

$$= \frac{6.24}{2.6}$$

$$= = \frac{6.24 \times 10}{2.6 \times 10}$$

$$= \frac{62.4}{26}$$

$$= 2.4$$

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         2 . 4
    26 ) 6 2. 4
        -5 2
        ──────
         10 4
         10 4
        ──────
            0
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(ii) **Two - fifths** $= \frac{2}{5}$

Two fifths as percentage $= \frac{2}{5} \times 100\%$

$$= 2 \times 20\% = 40\%$$

3. Sum of temperature of 4 different days $= 16^\circ C + 12^\circ C + 7^\circ C + 9^\circ C = 44\,^\circ C$

Number of days $= 4$

Average temperature $= \frac{\text{sum of temperature on 4 days}}{4}$

$$= \frac{44^\circ\ C}{4}$$

$$= 11^\circ C$$

So average temperature is $11\,^\circ C$.

4. Weight of a box of chocolate $= 80g$.

Amount of chocolate Ali ate on Monday $= \frac{1}{8}$ of the chocolate

$$= \frac{1}{8} \times 80g = 10g$$

Amount of chocolate Ali ate on Tuesday $= 20g$

Amount of chocolate he ate on both days $= 10g + 20g = 30g$

Amount of chocolate left with him $= 80g - 30g = 50\ g$

5. To find the **maximum length** of each equal-sized piece cut from both ribbons, we should calculate the **HCF** of the given lengths .

HCF of 96 & 84

2	96 , 84
2	48 , 42
3	24 , 21
	8 , 7

HCF of 96 & 84 is $2 \times 2 \times 3 = 4 \times 3 = 12$

Therefore, the maximum possible length of each piece of ribbon Sara can cut is **12m**.