

Name: _____

Roll No. _____

SIDDEEQ PUBLIC SCHOOL

ENTRY TEST ... 49

MATHEMATICS

Max. Marks: 20

ADMISSION to GRADE: 7

Checked by	Srv #	Sign:	Rechecked by	Srv #	Sign:	Marks:
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1. Complete the following mathematical statements.

(1.0 × 4)

(i) If we solve $\frac{8}{7} \times \frac{7}{8} \times 6$ then we get _____.

(ii) If $a = 5$ then value of a^2 is _____.

(iii) +1 _____ Integer between -1 & $+1$ (Insert: $<$ or $>$)

(iv) The width of rectangle is half of its length. If length is 'x' then width is _____.

2. Do as directed.

(i) Solve: $16x + 4 = 52$

(ii) Simplify: $[2y^2 - \{ (y^2 + 2y^2) - y^2 \}]$ (2.0 × 2)

3. Find the Highest common factor of $5^2 \times 2^2$, $5 \times 2^3 \times 3$ and 5×2^2 (4.0)

4. Three cars covered distance of 1200m , 2km and 800m respectively. Find the ratio of the distances covered by three cars. (4.0)

(Give your answer in simplest form)

5. A shopkeeper reduced the price of a book by 12% during a book fare.

If the original price was Rs 6000, what is the new price? (4.0)

(Use back of the sheet for Q#5)

SIDDEEQ PUBLIC SCHOOL

Answer Key

ADMISSION to GRADE: 7 (Group B)

MATHEMATICS

1. (i) 6 (ii) 25 (iii) $>$ (iv) $\frac{x}{2}$

2. (i) $16x + 4 = 52$	(ii) $[2y^2 - \{ (y^2 + 2y^2) - y^2 \}]$
$16x = 52 - 4$	$= [2y^2 - \{ 3y^2 - y^2 \}]$
$16x = 48$	$= [2y^2 - \{ 2y^2 \}]$
$x = \frac{48}{16}$	$= [2y^2 - 2y^2] = 0$
$x = 3$	

3. **Highest common factor** = 5×2^2

$= 5 \times 4$

$= 20$

4. **1 km = 1000m 2 km = 2000m**

Ratio of the distances covered by three cars

$= 1200 : 2000 : 800$

$= 12 : 20 : 8$

$= 6 : 10 : 4$

$= 3 : 5 : 2$

5. **Method #1:**

Original price of book = Rs 6000

Reduction % = 12%

Amount of reduction = 12% of original price

$= \frac{12}{100} \times \text{Rs } 6000$

$= 12 \times \text{Rs } 60$

$= \text{Rs } 720$

New price of book = Rs 6000 – Rs 720

$= \text{Rs } 5280$

Method # 2:

New price of book = (100 – 12)% of original price of book

$= 88\% \text{ of Rs } 6000$

$= \frac{88}{100} \times \text{Rs } 6000$

$= 88 \times \text{Rs } 60$

$= \text{Rs } 5280$