Mathematics

class - VII

Ch - 01. "Integers" Ex - 1.3

Q. 6.

Sol. Given,

Present room temp. = 40°c

Rate of decreasing in temp. = 5°c/hr.

Time given = 10 hrs.

Hence,

Required temp. of room after 10 hrs = $40°c + [10 \times (-5)°c]$

$= 40°c + [-50°c]$

$= 40°c - 50°c$

$= -10°c$. Ans.

Q. 7. Sol.

Given.

No. of questions = 10.

Marks given for correct answer = 5

and Marks given for incorrect answer = -2

and for untouched q = 0

(i) For Mohan.

correct answers = 4

Marks $= 4 \times 5 = 20$

Scanned with CamScanner

Incorrect answers = 6

Marks = $6 \times (-2)$

= -12.

Hence, His score = $20 + (-12)$

= $20 - 12$

= 8 marks.

(ii) For Reshma,

correct answers = 5.

Marks = $5 \times 5 = 25$.

incorrect answers = 5

Marks = $5 \times (-2)$

= -10.

Hence, Her score = $25 + (-10)$

= $25 - 10$

= 15 marks.

(iii) For Heena,

correct answers = 2.

Marks = $2 \times 5 = 10$.

Incorrect answers = 5.

Marks = $5 \times (-2)$

= -10.

And, no. of untouched q. = 3

mark = $3 \times 0 = 0$.

Hence,

Her score = $10 + (-10) + 0$

= $10 - 10 + 0$

= 0 mark.

Scanned with CamScanner

Q. 8. Given,

Date
Page

Probit for selling white cement
= ₹ 8 / bag.

Loss for selling grey cement
= ₹ 5 / bag.

(a). No. of bags that are sold by company,

White cement = 3000 bags.

Total-Probit = ₹ 8 × 3000
= ₹ 24,000

Grey cement = 5000 bags.

Total-Loss = ₹ 5 × 5000
= ₹ 25,000.

Here, $\boxed{\text{Probit} < \text{Loss}}$

Now, Actual loss for company
= ₹ (25,000 - 24,000)
= ₹ 1000.

(b). Given,

No. of grey-cement bags that is sold by company = 6400.

So, total loss for company = ₹ 5 × 6400
= ₹ 32000. —(i)

Now, Let the no. of white-cement

Scanned with CamScanner

bags = x (that are sold by company for getting no loss).

A/q, Total probit for Company by selling white cement bags (x)

$= ₹8 \times x$

$= 8x$ —— (ii)

Here, eq (i) = eq (ii) [Loss = probit]

$\Rightarrow 32000 = 8x$

$\Rightarrow x = \frac{32000}{8} = 4000.$

Hence, Required no. of bags of white-cement sold by company

$= 4000.$ Ans.

Q. 9. Replace the blank with an integer.

(a) $(-3) \times$? $= 27$

$? = \frac{27}{-3} = -9.$

(b) $5 \times$? $= -35$

$? = \frac{-35}{5} = -7.$

(c) ? $\times (-8) = -56$

$? = \frac{-56}{-8} = 7.$ Ans.

Scanned with CamScanner