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G.D.GOENKA PUBLIC SCHOOL

Subject: Mathematics (6th)

Aspect: Home- Assignment

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Chapter No.12 (Ratio and Proportion)

Exercise 12.2 Page no: 255

Q1. Determine if the following are in proportion.

(a) 15, 45, 40, 120

(b) 33, 121, 9, 96

(c) 24, 28, 36, 48

(d) 32, 48, 70, 210

(e) 4, 6, 8, 12

(f) 33, 44, 75, 100

Solution:

(a) 15, 45, 40, 120

$$15 / 45 = 1 / 3$$

$$40 / 120 = 1 / 3$$

Hence, 15: 45 = 40:120

∴ Yes, these are in proportion

(b) 33, 121, 9, 96

$$33 / 121 = 3 / 11$$

$$9 / 96 = 3 / 32$$

Hence $33:121 \neq 9:96$

\therefore No, these are not in proportion

(c) 24, 28, 36, 48

$$24 / 28 = 6 / 7$$

$$36 / 48 = 3 / 4$$

Hence, $24:28 \neq 36:48$

\therefore No, these are not in proportion

(d) 32, 48, 70, 210

$$32 / 48 = 2 / 3$$

$$70 / 210 = 1 / 3$$

Hence, $32:48 \neq 70:210$

\therefore No, these are not in proportion

(e) 4, 6, 8, 12

$$4 / 6 = 2 / 3$$

$$8 / 12 = 2 / 3$$

Hence 4: 6 = 8: 12

∴ Yes, these are in proportion

(f) 33, 44, 75, 100

$$33/44 = 3/4$$

$$75/100 = 3/4$$

Hence, 33:44 = 75: 100

∴ Yes, these are in proportion

Write Q1 in your mathematics notebook.