

HVV - Q/A 1/2

Ex 19 D

Homework

Q → 1 and 2

Ex 19 D in notebook

(2-1, ii)

19 CD)

i) 3a by a

Ans)

→ $\frac{3a}{a} = 3$

ii) 15x by 3x

Ans)

$\frac{15x}{3x} \rightarrow 5$

iii) $\frac{2x^5}{x^3}$

$= \frac{2x^5}{x \times x} = 2x^2 + x + 5$

ii) 16m by 4

Ans)

$\frac{4 \times 16m}{4} \rightarrow 4m$

Ans)

i) $\frac{2x^5}{x^2} = \frac{2 \times x \times x \times x \times x \times x}{x \times x}$

$= 2x^3$

iv) 20x² by 5x

Ans)

$\frac{4 \times 20x^2 \times x}{5x} \rightarrow 4x$

ii) $\frac{6a^5}{3a^3} = \frac{6 \times a \times a \times a \times a \times a}{3 \times a \times a \times a}$

$= 2a^2$

v) 30p² by 10p²

Ans)

$\frac{3 \times 20p^2}{10p^2} \rightarrow 3$

iii) $\frac{20xy}{5xy} = \frac{20 \times x \times y}{5 \times x \times y}$

$= 4$

vi) $\frac{7a^3b^3}{2a^2} \rightarrow 7ab^3$

iv) $\frac{-24a^2b^2c^2}{6ab} = \frac{4 \times 24 \times a \times a \times b \times b \times c \times c}{8 \times a \times b}$

$= -4abc^2$

vii) $\frac{18\pi p^2 q^2}{3\pi p} \rightarrow 6\pi p q^2$

$\frac{6 \times 18 \times \pi \times p^2 \times q^2}{3 \times \pi \times p} \rightarrow 6\pi p q^2$

viii) $\frac{2+00}{50b} = 2b$

v) $\frac{-5x^2y}{x^2} = \frac{5 \times x \times x \times y}{x \times x \times y \times y}$

$= 5x \times y$

Ex (190)

$$\text{vii) } \frac{64xy^3}{4x^2y^2} = \frac{64 \times x \times x \times x \times x \times x \times y \times y \times y \times x}{4 \times x \times x \times x \times x \times y \times y \times x}$$

$$= 16xy$$

$$\text{viii) } \frac{35xy^5}{7x^2y^4} = \frac{35 \times x \times y \times y \times y \times y \times y}{7 \times x \times x \times x \times y \times y \times y \times y}$$

$$= 5xy$$

R=2
(3rd August 2021)

$$\frac{5}{8} \div \frac{3}{4} = \frac{5}{8} \times \frac{4}{3} = \frac{12}{24} = \frac{1}{2}$$

$$\frac{3}{5} \div \frac{9}{16} = \frac{3}{5} \times \frac{16}{9} = \frac{2}{3}$$

$$\frac{4}{9} \div 8 = \frac{4}{9} \times \frac{1}{8} = \frac{1}{2}$$

$$\text{Correct} = \frac{4}{9} \div 8 = \frac{4}{9} \times \frac{1}{8} = \frac{1}{18}$$

Ex-19 (0)

$$\text{3) i) Ans) } \frac{3m}{4} \text{ by } 2m = \frac{3m}{4} \div 2m = \frac{3m}{4} \div \frac{2m}{1}$$

$$= \frac{3m}{4} \times \frac{1}{2m} = \frac{3}{8}$$

ii) Ans) ~~2a^2 by 3b~~

$$\frac{2a^2}{9b^2} \text{ by } \frac{3b}{2a}$$

$$= \frac{2a^2}{9b^2} \div \frac{3b}{2a}$$

$$= \frac{2a^2}{9b^2} \times \frac{2a}{3b}$$

$$= \frac{4}{27} \times \frac{a^{2+1}}{b^{2+1}} = \frac{4}{27} \times \frac{a^3}{b^3}$$

