

H.W.
9-9-2021

Ex-9 (D)

2- Divide.

e) $\frac{22}{25} \div \frac{11}{15}$

$= \frac{22 \times 15}{25 \times 11} = \frac{35}{25} = 1\frac{10}{25}$

f) $\frac{26}{27} \div \frac{13}{15}$

$= \frac{26 \times 15}{27 \times 13} = \frac{35}{27} = 1\frac{8}{27}$

g) $\frac{45}{1} \div \frac{3}{8} = \frac{45}{1} \div \frac{3}{8}$

$\frac{15}{45} \times 8 = \frac{120}{1} = 120$

h) $91 \div \frac{26}{27} = \frac{91}{1} \div \frac{26}{27}$

$\frac{91 \times 27}{1 \times 26} = \frac{2557}{26} = 96\frac{61}{26}$

$$\frac{91 \times 27}{1 \times 26} = \frac{2457}{26} = 94 \frac{13}{26}$$

$$i) \frac{124}{15} \div 2 \frac{1}{27} = \frac{1804}{15} \cdot \frac{55}{27}$$

$$= \frac{184 \times 22^9}{5 \times 5 \times 55} = \frac{1656}{275} = 6 \frac{0}{275}$$

$$1) \frac{4}{3} \div 1 \frac{1}{2} = \frac{4}{3} \div \frac{3}{2} = \frac{4}{3} \cdot \frac{2}{3} = \frac{8}{9}$$

$$= \frac{14 \times 2 \times 2}{3 \times 3 \times 5} = \frac{28}{15} = 1 \frac{13}{15}$$

2) Find the quotient in its simplest form.

$$e) \frac{8}{6}$$

$$\frac{8}{6} = \frac{8 \div 2}{6 \div 2} = \frac{8 \times 1}{6 \times 7} = \frac{8}{42}$$

$$f) \frac{2}{19} = \frac{2}{19} \div 4 = \frac{2}{19} \times \frac{1}{4} = \frac{1}{38}$$

$$g) \frac{7}{9} = \frac{7}{9} \div 28 = \frac{7}{9} \times \frac{1}{28} = \frac{1}{36}$$

$$h) \frac{5}{3} = \frac{5}{3} \div 10 = \frac{5}{3} \times \frac{1}{10} = \frac{1}{6}$$

$$i) \frac{20}{7} = \frac{20}{7} \div 15 = \frac{20}{7} \times \frac{1}{15} = \frac{20}{105} = \frac{4}{21}$$

$$j) \frac{3\frac{3}{4}}{1\frac{1}{2}} = \frac{15 \div 4}{2} = \frac{15}{2} \times \frac{1}{2} = \frac{15}{4} = 3\frac{3}{4}$$