



Question 8: Write each of the following in index form

(a)
$$\frac{3}{x^2}$$
 (b) $\frac{5}{w^8}$ (c) $\frac{2}{3y^2}$ (d) $\frac{1}{4x^3}$ (e) $\frac{6}{y^m}$ (f) $\frac{a}{x^n}$

Question 9: Write each of the following as fractions

(a) $100^{-\frac{1}{2}}$ (b) $25^{-\frac{1}{2}}$ (c) $9^{-\frac{1}{2}}$ (d) $8^{-\frac{1}{3}}$ (e) $125^{-\frac{1}{3}}$ (f) $16^{-\frac{1}{4}}$

Question 10: Write each of the following as fractions

(a)
$$8^{-\frac{2}{3}}$$
 (b) $25^{-\frac{3}{2}}$ (c) $64^{-\frac{2}{3}}$ (d) $4^{-\frac{5}{2}}$ (e) $81^{-\frac{3}{4}}$ (f) $10000^{-\frac{2}{5}}$

Apply

Question 1: Arrange in order from smallest to largest.

$$\frac{1}{50}$$
 5⁻² $\frac{3}{10}$ 2⁻³

Question 2: Work out

(a)
$$4^{-2} \times 3^2$$
 (b) $10^{-1} \div 5^{-2}$ (c) $2^{-2} + 3^{-2} \times 2^3$

Question 3: Sally has completed her homework.
Can you spot any mistakes? Question 1 Question 2
Evaluate Work out

$$4^{-2}$$
 10^{-3}
 -16 $\frac{1}{30}$

Question 4: Given that
$$2^m + 2^n = \frac{9}{32}$$

Work out *MN*



Question 5:

 x^{-2} x^0 x x^3

Put the expressions above in order, from smallest to largest, when:

- (a) x = 2 (b) x = 1 (c) x = 0.5 (d) x = -0.5
- (e) x = -1 (f) x = -2







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