Using a Calculator

Question 1

Use a calculator to evaluate:

a) 31^2 b) 3.12^2 c) 8^3 d) $\sqrt{146.41}$

e) 9^4 f) $\sqrt[3]{729}$ g) 1^{10} h) $\sqrt[5]{32}$

i) $(-1)^2$ j) $\sqrt[10]{1}$ k) $(1 + 2)^3$ l) $\sqrt{\sqrt{\sqrt{256}}}$

Question 2

Use a calculator to evaluate:

a) $\frac{3}{4} + \frac{2}{5}$ b) $\frac{2}{3} \times \frac{3}{2}$ c) $4\frac{1}{2} - 2\frac{7}{8}$

d) $\left(\frac{5}{8}\right)^2$ e) $1\frac{1}{2} \div \frac{1}{6}$ f) $\left(2\frac{2}{3}\right)^3$

Question 3

Evaluate:

a) $\sqrt{\frac{1}{12} + \frac{11}{18}}$ b) $\left(1 + \frac{1}{10}\right)^{10}$

Answers

Question 1

Use a calculator to evaluate:

b) 31^2 **= 961** b) 3.12^2 **= 97344** c) 8^3 **= 512** d) $\sqrt{146.41}$ **= 12.1**

e) 9^4 **= 6561** f) $\sqrt[3]{729}$ **= 9** g) 1^{10} **= 1** h) $\sqrt[5]{32}$ **= 2**

i) $(-1)^2$ **= 1** j) $\sqrt[10]{1}$ **= 1** k) $(1+2)^3$ **= 27** l) $\sqrt{\sqrt{\sqrt{256}}}$ **= 2**

Question 2

Use a calculator to evaluate:

b) $\frac{3}{4}+\frac{2}{5}$ **=** $\mathbf{\frac{23}{20}}$ b) $\frac{2}{3}\times\frac{3}{2}$ **= 1** c) $4\frac{1}{2}-2\frac{7}{8}$ **=** $\mathbf{\frac{13}{8}}$

d) $\left(\frac{5}{8}\right)^2$ **=** $\mathbf{\frac{25}{64}}$ e) $1\frac{1}{2}\div\frac{1}{6}$ **= 9** f) $\left(2\frac{2}{3}\right)^3$ **=** $\mathbf{18\frac{26}{27}}$

Question 3

Evaluate:

b) $\sqrt{\frac{1}{12}+\frac{11}{18}}$ **=** $\mathbf{\frac{5}{6}}$ b) $\left(1+\frac{1}{10}\right)^{10}$ **= 2.59374246**