



Write as a power of 2

$$\sqrt[4]{32} \quad \sqrt[4]{2^5}$$

$$2^{\frac{5}{4}}$$

Without using a calculator, work out

$$0.\dot{7} + 2^{-2} \div 0.1\dot{4}1$$

$$\frac{7}{9} + \frac{1}{4} \div \frac{14}{99}$$

$$\frac{7}{9} + \frac{1}{4} \times \frac{99}{14} = \frac{7}{9} + \frac{99}{56}$$

$$x = 0.1414141\dots$$

$$100x = 14.1414\dots$$

$$99x = 14$$

$$x = \frac{14}{99}$$

$$\frac{392}{504} + \frac{991}{504}$$

$$\frac{1283}{504}$$

In year 7 there are 20% more students who do not wear glasses than do.

$\frac{3}{20}$ of the students who do not wear glasses are left handed

$\frac{1}{4}$ of the students who wear glasses are left handed

43 of the students in year 7 are left handed.

$$220$$

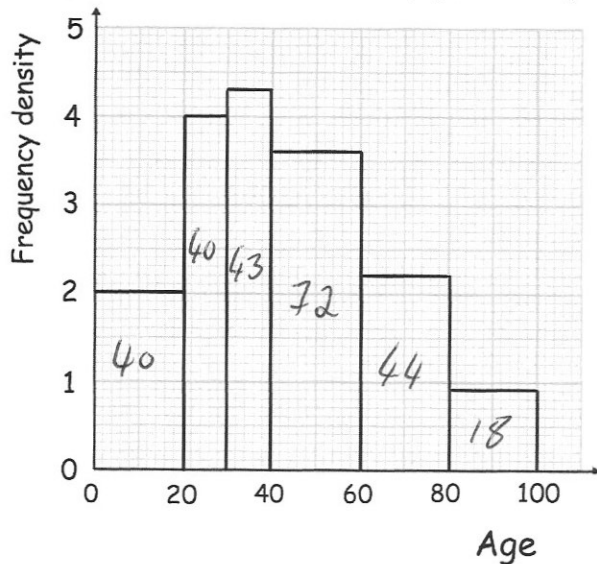
Find how many students are in year 7

$$\frac{5}{11} \times 6 \times \frac{14}{11} \times \frac{5}{11} \times \frac{1}{4} = \frac{5}{44}$$

$$\frac{6}{11} \times \frac{3}{20} \times \frac{6}{11} \times \frac{3}{20} = \frac{18}{220}$$

$$\frac{5}{44} + \frac{18}{220} = \frac{43}{220}$$

The histogram shows the ages of 257 people who visited a library yesterday.



Calculate an estimate of the mean

$$fx$$

$$10 \times 40 = 400$$

$$25 \times 40 = 1000$$

$$35 \times 43 = 1505$$

$$50 \times 72 = 3600$$

$$70 \times 44 = 3080$$

$$90 \times 18 = 1620$$

$$11205 \div 257$$

$$43.6 \text{ years}$$

Calculate an estimate of the median

$$257 \div 2 = 128.5^{\text{th}}$$

$$40 + \frac{5.5}{72} \times 20$$

$$41.527 \text{ years}$$