

14th April

Higher 5-a-day



Corbettmaths

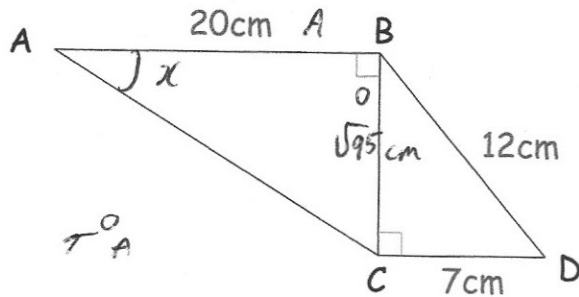
Use your calculator to work out

$$\frac{\sqrt{39.75 + 24.44}}{0.55 \times \sqrt[3]{1.2 \times 1.9}}$$

Give your answer correct to 2 significant figures.

$$11.06775107$$

11



Work out the size of angle CAB

$$BC^2 = 12^2 - 7^2$$

$$BC^2 = 95$$

$$BC = \sqrt{95}$$

$$\tan x = \frac{\sqrt{95}}{20} \quad x = 25.98^\circ$$

There are white chocolate, milk chocolate and dark chocolate sweets in a bag. The table shows the probability of getting each type of chocolate.

Chocolate	dark	milk	white
Probability	$\frac{3}{20}$	$\frac{31}{60}$	$\frac{1}{3}$

There are less than 500 chocolates in the bag. What is the greatest possible number of chocolates in the bag?

$$480$$

Work out

$$27^{-\frac{2}{3}}$$

$$\frac{1}{27^{\frac{2}{3}}}$$

$$\sqrt[3]{27} = 3$$

$$3^2 = 9$$

$$\frac{1}{9}$$

Find the size of angle y

$$\frac{\sin 84}{32.4} = \frac{\sin y}{21}$$

$$\sin y = 0.144 \dots$$

$$y = 40.1355^\circ$$

