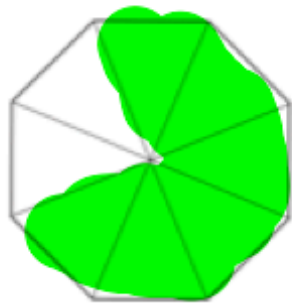


April 12th

5-a-day

Numeracy



Shade in 75% of this shape



This is the net of which solid?

square based pyramid

How many edges does that solid have?

8

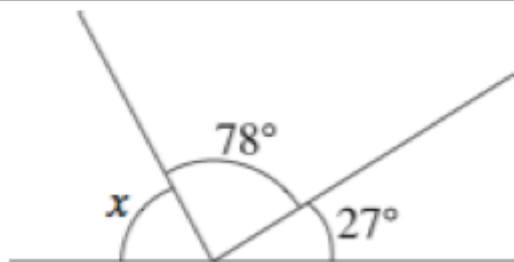
Write down all the factors of 33

1, 3, 11, 33



Which shapes are congruent?

A & D



Find x

$$\begin{array}{r} 78 \\ + 27 \\ \hline 105 \end{array}$$

$$\begin{array}{r} 180 \\ - 105 \\ \hline 75 \end{array}$$

The circumference of a circle is 50cm.

What is the length of its diameter?

$$50 \div \pi$$

$$= 15.92 \text{ cm}$$

Write 90 as a product of primes

$$2 \times 3 \times 3 \times 5$$

$$2 \times 3^2 \times 5$$

$$\begin{array}{r}
 90 \\
 \textcircled{2} \overset{1}{\mid} 45 \\
 \textcircled{3} \overset{1}{\mid} 15 \\
 \textcircled{3} \overset{1}{\mid} 5
 \end{array}$$

A taxi journey costs £4 for 5 miles.

How much is the cost for a 8 mile journey?

$$1 \text{ mile} = 80p$$

$$8 \times 80p = \pounds 6.40$$

Estimate $19.96 - 1.997$

$$\sqrt{4.01}$$

$$\frac{20 - 2}{\sqrt{4}} = \frac{18}{2} = 9$$

Complete this table for $y = x^2 - 2$

x	-3	-2	-1	0	1	2	3
y	7	2	-1	-2	-1	2	5

Write 0.000081 in standard form

$$8.1 \times 10^{-5}$$

Solve

$$y^2 + 2y - 24 = 0$$

$$(y+6)(y-4) = 0$$

$$\text{or } y = -6$$

$$y = 4$$

A cone is 10cm tall.

The base of the cone has radius 3cm.

Calculate the volume of the cone.

$$\frac{1}{3} \times \pi \times 3^2 \times 10$$

$$= 30\pi = 94.2 \text{ cm}^3$$



The probability Ann passes a test is 0.8.

The probability both Ann and Beth pass a test is 0.5.

What is the probability Beth passes the test?

$$0.8 \times y = 0.5$$

$$y = 0.5 \div 0.8 = 0.625$$

$P(FF)$

$$0.2 \times 0.375$$

$$= 0.075$$

What is the probability both Ann and Beth fail the test?