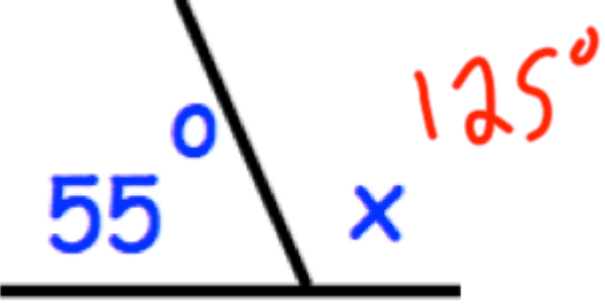
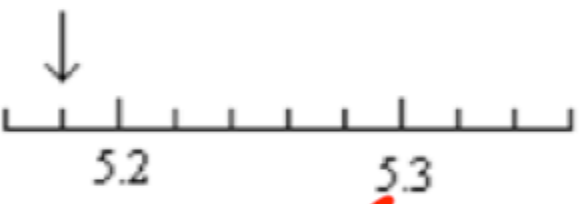


| February 19th  | 5-a-day                                      | Numeracy |     |      |  |     |   |  |
|--|--|----------|-----|------|--|-----|---|--|
| <p>72 + 38</p> $\begin{array}{r} 72 \\ + 38 \\ \hline 110 \end{array}$   |  |          |     |      |  |     |   |  |
|   |  |          |     |      |  |     |   |  |
| <p style="text-align: right;">meter reading</p> <table border="0"> <tr> <td>Jan</td> <td>1650</td> </tr> <tr> <td>Feb</td> <td>1860</td> </tr> <tr> <td></td> <td style="text-align: right;">210</td> </tr> </table> | Jan  | 1650     | Feb | 1860 |  | 210 | <p>Gas costs 10p per unit.</p> <p>Work out the cost for the gas used.</p> $210 \times 10p = 2100p$ $£ 21$ |  |
| Jan  | 1650   |          |     |      |  |     |   |  |
| Feb  | 1860   |          |     |      |  |     |   |  |
|  | 210  |          |     |      |  |     |   |  |
|  <p style="text-align: center;"><math>5.18</math></p>   | <p>What number is the arrow pointing to?</p> |          |     |      |  |     |   |  |
| <p>There are 201 cows in a field.</p> <p><math>\frac{2}{3}</math> of them are brown. How many brown cows are there?</p>  | $3 \overline{) 201}$ $67 \times 2 = 134$     |          |     |      |  |     |   |  |

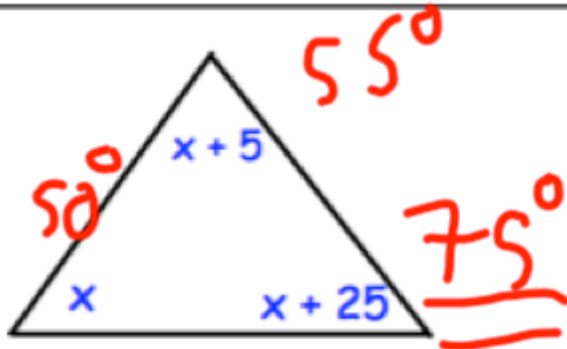
The  $n$ th term of a sequence is  
 $4n - 2$

Write down the first 3 terms of the sequence

2 6 10

Is 140 a term in the sequence?

$$\begin{aligned} 4n - 2 &= 140 \\ 4n &= 142 \\ n &= 35.5 \end{aligned}$$

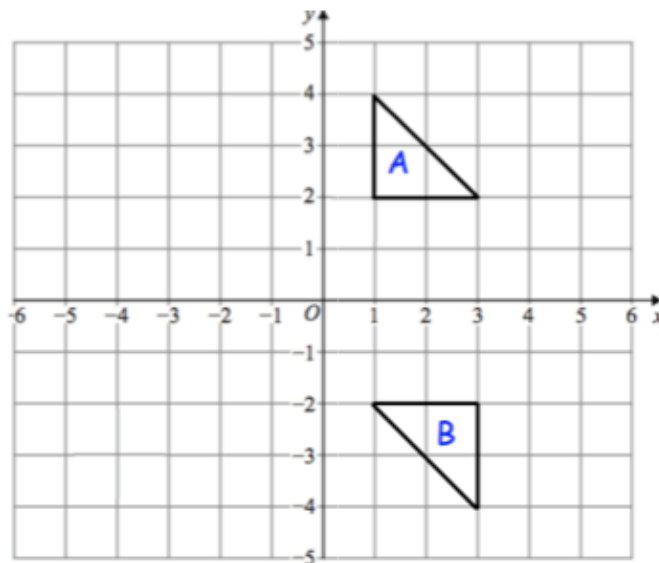
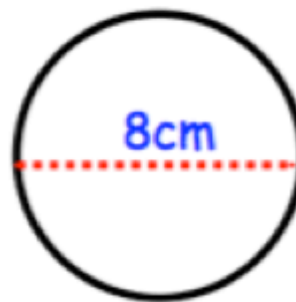


Calculate the size of the largest angle

$$\begin{aligned} 3x + 30 &= 180 \\ 3x &= 150 \\ x &= 50 \end{aligned}$$

Calculate the area. Leave your answer in terms of  $\pi$

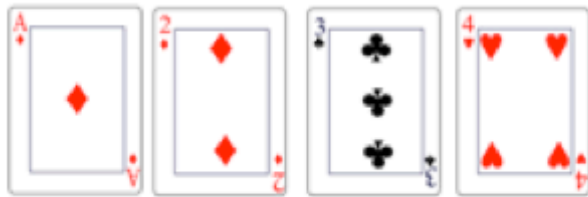
$$\begin{aligned} \pi \times r^2 \\ \pi \times 4^2 \\ = 16\pi \text{ cm}^2 \end{aligned}$$



Rotation, 90 degrees clockwise about (0,0)

Define a "discrete variable"

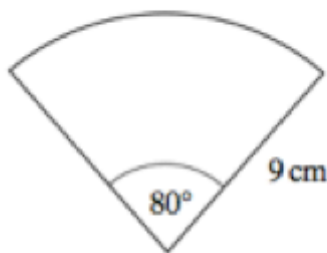
A variable that can only take certain values. e.g. shoe size



$$\frac{3}{4} \times \frac{3}{4} = \frac{9}{16}$$

Sophie selects a card at random, then replaces it. She then selects another.

What is the probability she selects two red cards?



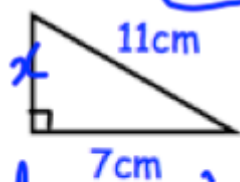
Work out the area of the sector

$$\frac{80}{360} \times \pi \times 9^2$$

$$18\pi \text{ cm}^2$$

$$56.5487 \text{ cm}^2$$

The triangle below is enlarged by scale factor 3.



$$x^2 = 11^2 - 7^2$$

$$x = 8.48528$$

$\times 9 \nearrow$

$$267.287 \text{ cm}^2$$

$$\text{Area} = \frac{1}{2} (7 \times 8.48528 \dots) = 29.698 \dots \text{ cm}^2$$

Hollie invests £4000 at 5% interest per annum.

How many years will it take until she has double her initial amount?

15

$$4000 \times 1.05^{14} = 7919.7$$

$$4000 \times 1.05^{15} =$$

$$8315.7 \dots$$