

March 3rd	5-a-day	Numeracy
Pencil Compass Set Square $  \begin{array}{r}  0.35 \\  0.85 \\  0.55 \\  + \quad \frac{11}{1.75} \\  \hline  1.75  \end{array}  $	Find the total cost. $  \pounds 1.75  $	
A bill of £68 was shared equally by 4 people. How much did each person have to pay? $  \begin{array}{r}  \pounds 17 \\  68 \div 4 = 17 \\  4 \overline{) 68}  \end{array}  $	£20 was collected from each person, how much change did each receive? $  \pounds 3  $	
A TV was bought for £132. It was sold at a profit of 25%. What was the selling price? $  \begin{array}{r}  033 \\  4 \overline{) 132}  \end{array}  $	$  25\% = \pounds 33  $ $  \pounds 132 + \pounds 33 = \pounds 165  $	
A train leaves Bath at 10:45 It takes 23 minutes to reach Bradford-on-Avon. At what time does it arrive at Bradford-on-Avon?	$  \begin{array}{l}  10:45 \\  11:00 \\  \hline  11:08  \end{array}  $ <p>15 mins 8 mins</p>	
The train arrives in London at 13:12. How long does it take to travel from Bath to London?	$  \begin{array}{l}  12:45 \\  13:00 \\  13:12 \\  \hline  2 \text{ hours } 27 \text{ mins}  \end{array}  $ <p>15 mins    12 mins</p>	

Expand

$3y(y + 3)$

$3y^2 + 9y$

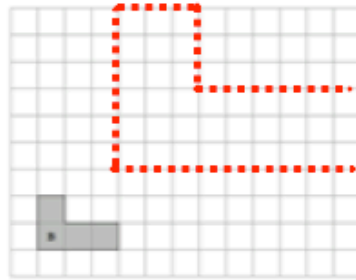
Simplify

$2p \times 2p \times 2w$

$8p^2w$

Enlarge shape B by scale factor 3

Position not important.



Time ( $t$ minutes)	Frequency
$0 < t \leq 6$	15
$6 < t \leq 12$	25
$12 < t \leq 18$	20
$18 < t \leq 24$	12
$24 < t \leq 30$	8

midpoint  
3  
15  
21  
27

$f \times x$   
45  
225  
300  
252  
216  
1038

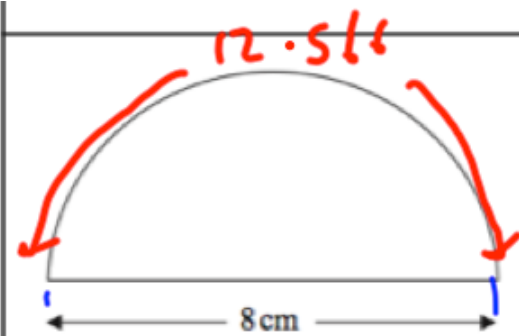
80

Write down the modal interval

$6 < t \leq 12$

Calculate an estimate for the mean

$1038 \div 80 =$   
 $12.975$



Calculate the perimeter

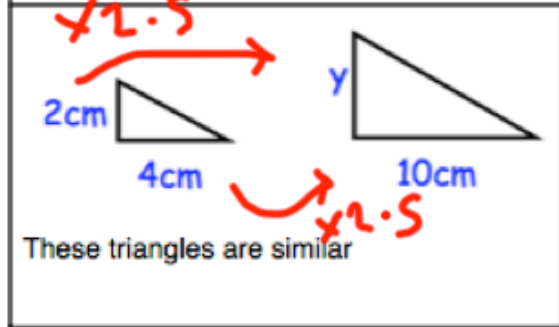
$\pi \times 8 = 25.13274123$   
 $25.13274123 \div 2 = 12.566370615$   
 $12.566370615 + 8 = 20.566370615$



Simplify

$$\frac{6a^3b \times 4ab^5}{8ab^2}$$

$$\frac{24a^4b^6}{8ab^2} = 3a^3b^4$$



Calculate y

$$2 \times 2.5 = 5\text{cm}$$

Write 0.5666666... as a fraction

$$x = 0.5666\dots$$

$$10x = 5.666\dots$$

$$100x = 56.666\dots$$

$$90x = 51$$

$$x = \frac{51}{90} = \frac{17}{30}$$

Solve

$$\frac{x+4}{5} + \frac{x-2}{3} = 3$$

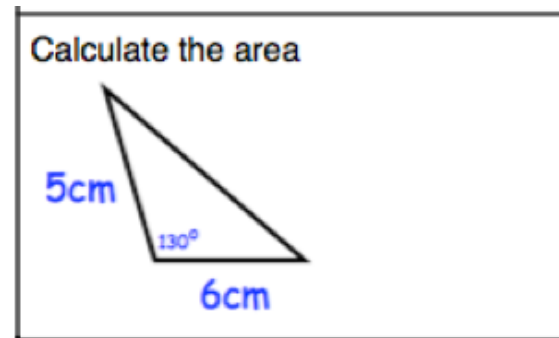
$$\frac{3x+12}{15} + \frac{5x-10}{15} = 3$$

$$\frac{8x+2}{15} = 3$$

$$8x+2=45$$

$$8x=43$$

$$x=5.375$$



$$\frac{1}{2} ab \sin C$$

$$\frac{1}{2} (5)(6) \sin 130^\circ$$

$$15 \sin 130 = 11.49 \text{ cm}^2$$