


Name: _____

| September 1st | 5-a-day | Numeracy | | | | | | | | | |
|--|---|----------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| Shade 20% of this shape  | | | | | | | | | | | |
| Write down all the prime numbers between 10 and 20 <i>11 13 17 19</i> | Write the first square number which is greater than 36 <i>49</i> | | | | | | | | | | |
| <table border="1"><tbody><tr><td>London</td><td>04 21</td><td>05 19</td><td>06 39</td></tr><tr><td>Paris</td><td>07 11</td><td>08 09</td><td>09 29</td></tr></tbody></table> | | | | London | 04 21 | 05 19 | 06 39 | Paris | 07 11 | 08 09 | 09 29 |
| London | 04 21 | 05 19 | 06 39 | | | | | | | | |
| Paris | 07 11 | 08 09 | 09 29 | | | | | | | | |
| How long does each train take to travel from London to Paris? <i>2 hours 50 minutes</i> | | | | | | | | | | | |
| Martin needs to arrive in Paris by 9am. Which train should he catch? <i>The 05:19 train from London</i> | Each train carries 450 passengers. All 3 trains are full. How many passengers travel in total? <i>1350</i> | | | | | | | | | | |
| Work out 25×183 <i>4575</i> | | | | | | | | | | | |

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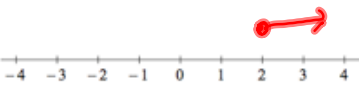
| September 1 | 5-a-day | Foundation |
|---|---------|---|
| Expand $(x + 4)(x + 5)$ | | $x^2 + 9x + 20$ |
| Solve $4y + 1 = 21 - y$ $5y + 1 = 21$ $5y = 20$ | | $y = 4$ |
| Two buildings are 160m apart. The scale of a map is 1:2000 How far are the towns apart on the map in centimetres? | | 16000cm $16000 \div 2000 = 8\text{cm}$ |
| Expand and simplify $(y + 6)(y + 10)$ | | $y^2 + 16y + 60$ |
| £640 is shared between John, Simon and Ian in the ratio 1:3:4 How much do they each receive? | | $1+3+4 = 8$ $640 \div 8 = 80$ $£80, £240, £320$ |

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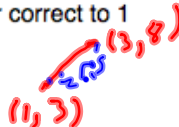
September 1 **5-a-day** **Higher**

Solve $10 - 2x \leq 6$
 $10 \leq 6 + 2x$
 $4 \leq 2x$
 $2 \leq x$ $x \geq 2$

Represent the answer on the number line



Calculate the distance between the coordinates (1, 3) and (3, 8).
 Give your answer correct to 1 decimal place.



$2^2 + 5^2 = 29$
 $\sqrt{29} = 5.38\dots$
 5.4cm

| Age | Frequency | f_c |
|------------------|-----------|-------|
| $10 < t \leq 20$ | 12 | 12 |
| $20 < t \leq 30$ | 20 | 32 |
| $30 < t \leq 40$ | 34 | 66 |
| $40 < t \leq 50$ | 11 | 77 |
| $50 < t \leq 60$ | 3 | 80 |

(a) Draw a cumulative frequency graph
 (b) Using the curve, estimate the median.
 around 31, 32, 33, 34
 depends on your curve

