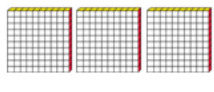


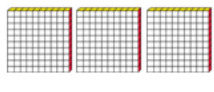


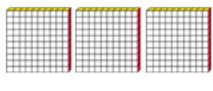


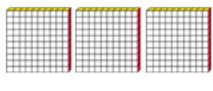


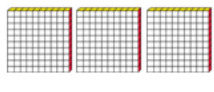


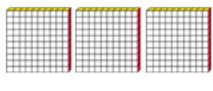







NATIONAL TEST 2011  
Mathematics – Standard III

No.	TEST ITEMS	WORKING COLUMN	<i>Do Not Write Here</i>																
1.	<p>Write the numeral for the number shown on the place value chart.</p> <table border="1" data-bbox="313 695 735 850"> <thead> <tr> <th>Hundreds</th> <th>Tens</th> <th>Ones</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p><b>Answer: 358</b></p>	Hundreds	Tens	Ones				<table border="1" data-bbox="833 516 1255 672"> <thead> <tr> <th>Hundreds</th> <th>Tens</th> <th>Ones</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>3 hundreds      5 tens      6 ones</p> <p>3 sets of 100's = <math>3 \times 100 = 300</math>            5 sets of 10's = <math>5 \times 10 = 50</math> +            8 ones = <math>8 \times 1 = 8</math>            Total = <u>358</u></p> <p>∴ The numeral for the number shown on the place value chart is 358.</p>	Hundreds	Tens	Ones								
Hundreds	Tens	Ones																	
																			
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2.	<p>Circle the number in which the numeral 3 has the greatest value.</p> <p>7139    7139    7913</p> <p>Answer:</p> <p><u>7319</u>    7139    7913</p>	<p>We place the numbers on a place value chart and note their values.</p> <table border="1" data-bbox="776 1283 1011 1465"> <thead> <tr> <th>Th</th> <th>H</th> <th>T</th> <th>O</th> </tr> </thead> <tbody> <tr> <td>7</td> <td>3</td> <td>1</td> <td>9</td> </tr> <tr> <td>7</td> <td>1</td> <td>3</td> <td>9</td> </tr> <tr> <td>7</td> <td>9</td> <td>1</td> <td>3</td> </tr> </tbody> </table> <p>3 hundreds = 300            3 tens = 30            3 ones = 3</p> <p>Since 300 is greater than 30 and also greater than 3, the number in which the numeral 3 has the greatest value is the number 7 319.</p>	Th	H	T	O	7	3	1	9	7	1	3	9	7	9	1	3	
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3.	<p>In a game the player closest to 1000 points wins a prize. Who won the prize?</p> <table border="1" data-bbox="313 573 740 810"> <thead> <tr> <th>Name</th> <th>Points</th> </tr> </thead> <tbody> <tr> <td>Ravi</td> <td><math>200 + 490 + 350</math></td> </tr> <tr> <td>Marlon</td> <td><math>500 + 300 + 185</math></td> </tr> <tr> <td>Alex</td> <td><math>450 + 350 + 150</math></td> </tr> </tbody> </table> <p><b>Answer: Marlon</b></p>	Name	Points	Ravi	$200 + 490 + 350$	Marlon	$500 + 300 + 185$	Alex	$450 + 350 + 150$	<p>Ravi's score:</p> <table border="1" data-bbox="776 432 1000 659"> <thead> <tr> <th>Th</th> <th>H</th> <th>T</th> <th>O</th> </tr> </thead> <tbody> <tr> <td></td> <td>1</td> <td></td> <td></td> </tr> <tr> <td></td> <td>2</td> <td>0</td> <td>0</td> </tr> <tr> <td>+</td> <td>4</td> <td>9</td> <td>0</td> </tr> <tr> <td></td> <td>3</td> <td>5</td> <td>0</td> </tr> <tr> <td>1</td> <td>0</td> <td>4</td> <td>0</td> </tr> </tbody> </table> <p>Difference between Ravi's score and 1 000 = <math>1\ 040 - 1\ 000 = 40</math></p> <p>Marlon's score:</p> <table border="1" data-bbox="776 842 1000 1026"> <thead> <tr> <th>Th</th> <th>H</th> <th>T</th> <th>O</th> </tr> </thead> <tbody> <tr> <td></td> <td>5</td> <td>0</td> <td>0</td> </tr> <tr> <td>+</td> <td>3</td> <td>0</td> <td>0</td> </tr> <tr> <td></td> <td>1</td> <td>8</td> <td>5</td> </tr> <tr> <td></td> <td>9</td> <td>8</td> <td>5</td> </tr> </tbody> </table> <p>Difference between Marlon's score and 1 000 = <math>1\ 000 - 985 = 15</math></p> <p>Alex's score:</p> <table border="1" data-bbox="776 1209 1000 1436"> <thead> <tr> <th>Th</th> <th>H</th> <th>T</th> <th>O</th> </tr> </thead> <tbody> <tr> <td></td> <td>1</td> <td></td> <td></td> </tr> <tr> <td></td> <td>4</td> <td>5</td> <td>0</td> </tr> <tr> <td>+</td> <td>3</td> <td>5</td> <td>0</td> </tr> <tr> <td></td> <td>1</td> <td>5</td> <td>0</td> </tr> <tr> <td></td> <td>9</td> <td>5</td> <td>0</td> </tr> </tbody> </table> <p>Difference between Alex's score and 1 000 = <math>1\ 000 - 950 = 50</math></p> <p>The smallest number among these differences of 40, 15 and 50 is 15.  <math>\therefore</math> The score closest to 1000 is Marlon's score of 985  <math>\therefore</math> Marlon would have won the prize.</p>	Th	H	T	O		1				2	0	0	+	4	9	0		3	5	0	1	0	4	0	Th	H	T	O		5	0	0	+	3	0	0		1	8	5		9	8	5	Th	H	T	O		1				4	5	0	+	3	5	0		1	5	0		9	5	0	
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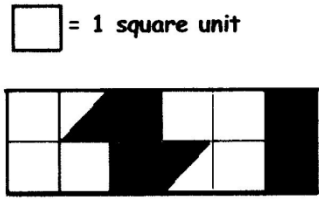

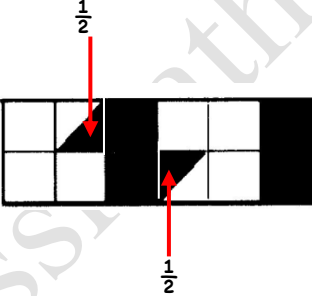
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here
4.	<p>Circle two numbers that add up to an <b>even</b> number that is <b>greater</b> than 25.</p> <p><b>11      12      13      14</b></p> <p>Answer:</p> <p><b>11      12      13      14</b></p>	<p>The available numbers are 11, 12, 13 and 14.</p> <p>Two numbers whose sum is even are Either both are odd or both are even. The numbers can be</p> <p><math>11 + 13 = 24</math>    or    <math>12 + 14 = 26</math></p> <p>But the sum must be greater than 25. The numbers could only be 12 and 14.</p> <p><math>12 + 14 = 26</math>. This total is both greater than 25 and is an even number, since it is divisible by 2.</p>	
5.	<p>Sasha has a bar of chocolate with 12 blocks.</p> <p>She gave 2 blocks to her sister and 3 blocks to her brother.</p> <p>With what fraction of the bar was she left?</p> <p>Answer: <math>\frac{7}{12}</math></p>	<p>Sasha's bar of 12 chocolate blocks</p>  <p>Sasha gave away:</p> <p>2 blocks to her sister</p> <p>3 blocks to her brother</p> <p>The total number of blocks given away</p> <p><math>= 2 + 3 = 5</math></p> <p>Number of blocks remaining</p> <p><math>= 12 - 5 = 7</math></p>  <p>Hence, the fraction of the chocolate bar that Sasha has left</p> <p><math>= \frac{7}{12}</math></p>	

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here
6.	<p>Circle the two fractions that are equivalent.</p> $\frac{6}{15} \quad \frac{10}{15} \quad \frac{8}{20} \quad \frac{15}{20}$ <p>Answer:</p> $\frac{6}{15} \quad \frac{10}{15} \quad \frac{8}{20} \quad \frac{15}{20}$	<p>The fractions cannot be compared unless they are expressed in the same denominator.</p> <p>The smallest number that is a multiple of both 15 and 20 is 60. So, we express all the fractions using 60 as the denominator:</p> $\frac{6}{15} = \frac{24}{60} \quad \frac{10}{15} = \frac{40}{60}$ $\frac{8}{20} = \frac{24}{60} \quad \frac{15}{20} = \frac{45}{60}$ <p>Notice the fractions <math>\frac{6}{15}</math> and <math>\frac{8}{20}</math> are both equal to <math>\frac{24}{60}</math>.</p> <p>Hence, the only two equivalent fractions from among the four fractions given are <math>\frac{6}{15}</math> and <math>\frac{8}{20}</math>.</p>	

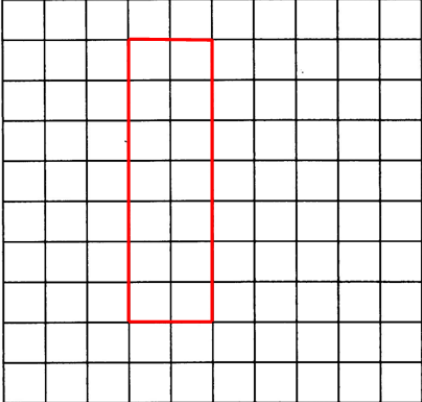
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here																												
7.	<p>A bus holds 145 passengers when full.</p>  <p>How many passengers can be transported in 13 similar buses?</p> <p><b>Answer: 1885 passengers</b></p>	<p>1 full bus holds = 145 passengers 13 full buses will hold = <math>145 \times 13</math> passengers</p> <table border="1" data-bbox="776 562 1019 863"> <thead> <tr> <th>Th</th> <th>H</th> <th>T</th> <th>O</th> </tr> </thead> <tbody> <tr> <td></td> <td>1</td> <td>4</td> <td>5</td> </tr> <tr> <td>×</td> <td></td> <td>1</td> <td>3</td> </tr> <tr> <td>1</td> <td>4</td> <td>5</td> <td>0</td> </tr> <tr> <td></td> <td>4</td> <td>3</td> <td>5</td> </tr> <tr> <td>1</td> <td>8</td> <td>8</td> <td>5</td> </tr> </tbody> </table> <p><math>145 \times 10</math> <math>145 \times 3</math></p>	Th	H	T	O		1	4	5	×		1	3	1	4	5	0		4	3	5	1	8	8	5					
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×		1	3																												
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8.	<p>253 toy trucks were packed into boxes.</p> <p>Each box can hold 8 toy trucks.</p> <p>a. How many boxes were completely filled?</p> <p><b>Answer: 31 boxes</b></p> <p>b. How many toy trucks were left over?</p> <p><b>Answer: 5 toy trucks</b></p>	<p>a. 1 box holds 8 toy trucks 10 boxes will hold <math>8 \times 10 = 80</math> trucks Fill 10 boxes at a time and check 10 boxes hold 80, total filled is <b>80</b> 10 boxes hold 80, total filled is <b>160</b> 10 boxes hold 80, total filled is <b>240</b> 1 box will hold 8, total filled is <b>248</b> So, <math>10 + 10 + 10 + 1 = 31</math> boxes will be completely filled.</p> <p>b. Hence, <math>253 - 248 = 5</math> toys remain.</p> <p>OR <math>253 \div 8 = 31 \text{ R } 5</math></p> <table border="1" data-bbox="776 1577 1073 1850"> <thead> <tr> <th></th> <th>H</th> <th>T</th> <th>O</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td>3</td> <td>1</td> </tr> <tr> <td>8</td> <td>2</td> <td>5</td> <td>3</td> </tr> <tr> <td></td> <td>2</td> <td>4</td> <td>0</td> </tr> <tr> <td></td> <td></td> <td>1</td> <td>3</td> </tr> <tr> <td></td> <td></td> <td></td> <td>8</td> </tr> <tr> <td></td> <td></td> <td></td> <td>5</td> </tr> </tbody> </table> <p>Filled boxes <math>30 \times 8</math> <math>1 \times 8</math> Remainder</p>		H	T	O			3	1	8	2	5	3		2	4	0			1	3				8				5	
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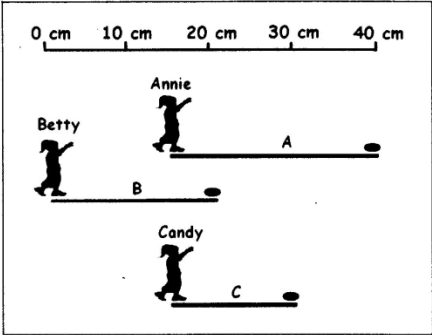
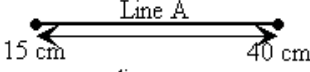
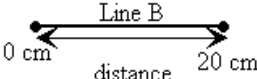
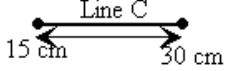
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here									
9.	<p>Kimlin and Sashi together have 136 stickers. Kimlin has 14 stickers more than Sashi.</p> <p>a. How many stickers does Sashi have?</p> <p><b>Answer: 61 stickers</b></p> <p>b. How many stickers does Kimlin have?</p> <p><b>Answer: 75 stickers</b></p>	<p>a. We can represent Kimlin and Sashi's stickers as one whole.</p> <table border="1" data-bbox="821 520 1292 569"> <tr> <td>136 stickers</td> </tr> </table> <p>Kimlin has 14 more stickers than Sashi. Let us separate these 14 stickers from the whole.  <math>136 - 14 = 122</math> stickers.  Our whole of 136 stickers is now made up like this:</p> <table border="1" data-bbox="821 842 1292 919"> <tr> <td>Sashi and Kimlin</td> <td>Kimlin</td> </tr> <tr> <td>122</td> <td>14</td> </tr> </table> <p>The 122 stickers are shared equally between the two girls.  Each will have <math>122 \div 2 = 61</math></p> <table border="1" data-bbox="821 1146 1292 1220"> <tr> <td>Sashi=61</td> <td>Kimlin=61+14=75</td> </tr> <tr> <td>61</td> <td>61 14</td> </tr> </table> <p>Sashi has 61 stickers  b. Kimlin has 75 stickers</p> <p>OR</p> <p>a. We subtract 14 from the total (<math>136 - 14 = 122</math>) and then divide the answer by 2.  Sashi has <math>122 \div 2 = 61</math> stickers.</p> <p>b. Since Kimlin has 14 more than Sashi, then Kimlin has  <math>= 61 + 14</math>  <math>= 75</math> stickers</p>	136 stickers	Sashi and Kimlin	Kimlin	122	14	Sashi=61	Kimlin=61+14=75	61	61 14	
136 stickers												
Sashi and Kimlin	Kimlin											
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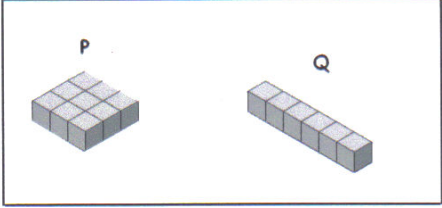
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here																																							
10.	<p>At a school concert, adults and children were present. A total of 875 persons were present.</p> <p>a. If 261 were children, how many adults were present?</p> <p><b>Answer: 614 adults</b></p> <p>b. Of the adults present, 342 were women, how many men were present?</p> <p><b>Answer: 272 men</b></p>	<p>a. Total number of persons = 875 Number of children = 261 Number of adults = <math>875 - 261</math></p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td>H</td><td>T</td><td>O</td></tr> <tr><td>8</td><td>7</td><td>5</td></tr> <tr><td colspan="3">-</td></tr> <tr><td>2</td><td>6</td><td>1</td></tr> <tr><td colspan="3">-----</td></tr> <tr><td>6</td><td>1</td><td>4</td></tr> </table> <p>The total number of adults present = 614.</p> <p>b. Number of adults present = 614 Number of women present = 342 The number of men present = <math>614 - 342 = 272</math></p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td>H</td><td>T</td><td>O</td></tr> <tr><td>5</td><td>11</td><td></td></tr> <tr><td><del>6</del></td><td>1</td><td>4</td></tr> <tr><td colspan="3">-</td></tr> <tr><td>3</td><td>4</td><td>2</td></tr> <tr><td colspan="3">-----</td></tr> <tr><td>2</td><td>7</td><td>2</td></tr> </table>	H	T	O	8	7	5	-			2	6	1	-----			6	1	4	H	T	O	5	11		<del>6</del>	1	4	-			3	4	2	-----			2	7	2	
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11.	<p>Tick <input checked="" type="checkbox"/> the correct answer.</p> <p>The length of a skipping rope is approximately:</p> <p><input checked="" type="checkbox"/> <span style="border: 1px solid black; padding: 2px;">2 metres</span></p> <p><input type="checkbox"/> <span style="border: 1px solid black; padding: 2px;">2 centimetres</span></p> <p><input type="checkbox"/> <span style="border: 1px solid black; padding: 2px;">2 kilometres</span></p>	<p>2 cm is about the length of an eraser.</p> <p>2 km is about the length of a street.</p> <p>2 m is about the height of a door.</p> <p>Hence, the length of a skipping rope is approximately 2 m.</p>																																								

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12.	<p>What is the area of the shaded part of the figure?</p>  <p> = 1 square unit</p> <p><b>Answer: 5 square units.</b></p>	<p>The entire rectangular figure is divided into 12 smaller squares. Each small square is of area 1 square unit.</p> <p>Two of the squares are divided into two equal triangles. The area of these triangles is one half of a square unit.</p>  <p>The area of the shaded part of the figure</p> <p>= Area of the 4 fully shaded squares  + Area of the 2 shaded triangles  = <math>4 + \frac{1}{2} + \frac{1}{2}</math> square units  = <math>4 + 1</math> square units  = 5 square units</p>	






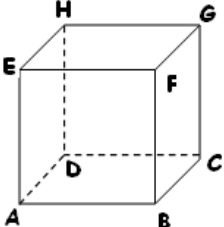
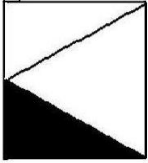

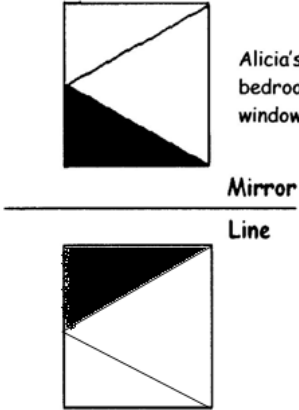
No.	TEST ITEMS	WORKING COLUMN	<i>Do Not Write Here</i>															
13.	<p>Each square on the grid is one 1 unit in length.</p> <p>Draw a rectangle with a perimeter of 18 units.</p> 	<p>There are several rectangles that can be drawn whose perimeter is 18 units.</p> <p>The perimeter of a rectangle = <math>2 \times (\text{Length} + \text{Width})</math></p> <p><math>2 \times (\text{Length} + \text{Width}) = 18 \text{ units}</math> Therefore <math>(\text{Length} + \text{Width}) = \frac{18}{2}</math> = 9 units</p> <p>Taking any two whole numbers that have a sum of 9, we have the following possibilities:</p> <table border="1" data-bbox="776 1092 1304 1318"> <thead> <tr> <th>Length</th> <th>Width</th> <th>L + W = 9</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>8</td> <td>9</td> </tr> <tr> <td>2</td> <td>7</td> <td>9</td> </tr> <tr> <td>3</td> <td>6</td> <td>9</td> </tr> <tr> <td>4</td> <td>5</td> <td>9</td> </tr> </tbody> </table> <p>Rectangles drawn with the above dimensions will have a perimeter of 18 units. One such rectangle is drawn on the grid provided.</p> <p>The rectangle chosen to be drawn is 2 units in width by 7 units in length, as shown.</p>	Length	Width	L + W = 9	1	8	9	2	7	9	3	6	9	4	5	9	
Length	Width	L + W = 9																
1	8	9																
2	7	9																
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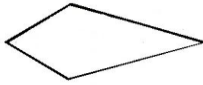

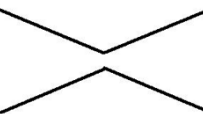
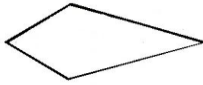

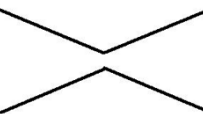
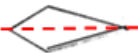
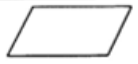

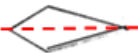
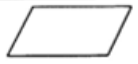

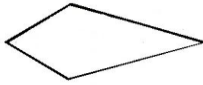

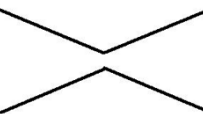
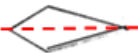
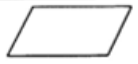

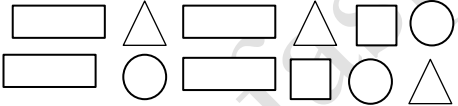
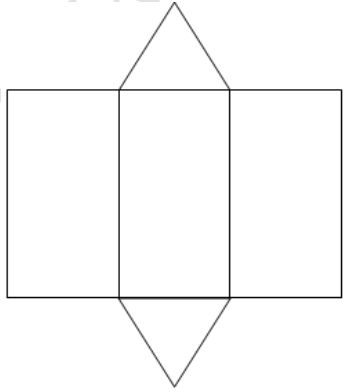
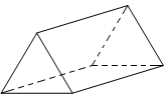
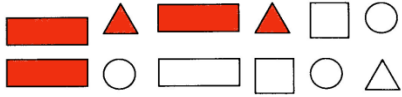
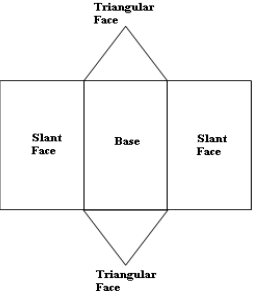
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here						
14.	<p>Three children threw coins while playing a game. The lines A, B and C below represent the distances thrown by Annie, Betty and Candy.</p>  <p>a. Order the line A, B and C from the shortest to longest by writing the letters in the boxes.</p> <p style="text-align: center;"> <input type="text"/>      <input type="text"/>      <input type="text"/>          Shortest                      Longest     </p> <p>Answer:</p> <p style="text-align: center;"> <input type="text" value="C"/>      <input type="text" value="B"/>      <input type="text" value="A"/>          Shortest                      Longest     </p> <p>b. What is the approximate length of line A?</p> <p><b>Answer: 25 cm</b></p>	<p>a. Annie threw the coin from the 15 cm mark to the 40 cm mark.</p> <div style="text-align: center;">  <p>distance = 40 - 15 = 25 cm</p> </div> <p>Annie's distance: <b>A = 25 cm.</b></p> <p>Betty threw the coin from the 0 cm mark to the 20 cm mark.</p> <div style="text-align: center;">  <p>distance = 20 - 0 = 20 cm</p> </div> <p>Betty's distance: <b>B = 20 cm</b></p> <p>Candy threw the coin from the 15 cm mark to the 30 cm mark.</p> <div style="text-align: center;">  <p>distance = 30 - 15 = 15 cm</p> </div> <p>Candy's distance: <b>C = 15 cm</b></p> <p>The distances from shortest to longest are:</p> <table style="margin-left: auto; margin-right: auto;"> <tr> <td>15</td> <td>20</td> <td>25</td> </tr> <tr> <td>C</td> <td>B</td> <td>A</td> </tr> </table> <p>b. The approximate length of line A is 25 cm, as obtained before, in part (a).</p>	15	20	25	C	B	A	
15	20	25							
C	B	A							

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here
15.	<p>The solids P and Q are made up of small cubes of edge 1 cm long.</p>  <p>a. State the number of small cubes in solid P.</p> <p><b>Answer: 9 small cubes</b></p> <p>b. Which solid has the greater volume?</p> <p><b>Answer: Solid P</b></p> <p>c. State the volume of solid Q.</p> <p><b>Answer: 6 cm<sup>3</sup></b></p>	<p>a. The solid P has 3 rows of small cubes. Each row has 3 small cubes The solid P is made up of <math>3 \times 3 = 9</math> small cubes. OR We could count the three rows of cubes: <math>3+3+3 = 9</math></p> <p>b. Solid Q has 6 small cubes. Solid P has 9 small cubes.</p> <p>Solid P is made up of more of the small cubes than is Solid Q. Therefore, Solid P has the greater volume.</p> <p>c. Volume of 1 small cube = <math>1 \text{ cm}^3</math></p> <p>Solid Q consists of 6 small cubes, each of volume <math>1 \text{ cm}^3</math>.</p> <p>Volume of solid Q = <math>6 \text{ cm}^3</math></p>	

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here
16.	<p>Amrit is a daily paid worker. He works for \$75.00 each day.</p> <p>a. Calculate his pay for the month of April if he works for 12 days.</p> <p><b>Answer: \$900</b></p> <p>b. In the month of May, he earned \$750.00. How many days did he work in May?</p> <p><b>Answer: 10 days</b></p> <p>c. In the month of June his earnings was twice as much as his earnings in May. How many days did he work in June?</p> <p><b>Answer: 20 days</b></p>	<p>a. Amrit's pay for 1 day is \$75.00. Amrit's pay for 12 days would be  <math>\\$75 \times 12</math>  <math>= \\$75 \times 10 + \\$75 \times 2</math>  <math>= \\$750 + \\$150</math>  <math>= \\$900</math></p> <p>b. In May, Amrit worked for \$750.00. The number of days that Amrit worked  <math display="block">= \frac{\text{Total earnings}}{\text{Pay per day}}</math> <math display="block">= \frac{\\$750}{\\$75} = 10</math></p> <p>c. Amrit's earnings in May = \$750 His earnings in June  <math>= 2 \times \text{earnings in May}</math>  <math>= \\$750 \times 2 = \\$1500</math>  <math>\therefore</math> The number of days Amrit worked in June  <math display="block">= \frac{\text{Total earnings in June}}{\text{Daily wage}}</math> <math display="block">= \frac{\\$1500}{\\$75} = 20</math></p> <p style="text-align: center;"><b>OR</b></p> <p>If Amrit worked for 10 days in May and in June he worked for twice the salary, then he would have worked for twice the number of days in June.  <math>= 10 \text{ days} \times 2 = 20 \text{ days}</math></p>	







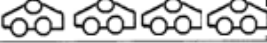





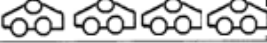





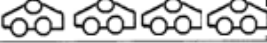
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here										
17.	<p>The following items are available at the food court in a mall.</p> <div style="display: flex; justify-content: space-around; align-items: flex-end; border: 1px solid black; padding: 5px;"> <div style="text-align: center;">  <p>Bar - B - Que \$25.00</p> </div> <div style="text-align: center;">  <p>Juice \$14.50</p> </div> <div style="text-align: center;">  <p>Ice - cream \$15.25</p> </div> </div> <p>a. Marvin bought 1 box of Bar-B-Que and 2 packs of juice. How much does he pay altogether?</p> <p><b>Answer: \$54.00</b></p> <p>b. Mary bought 4 items. Her total bill was \$70.00. Write the number of each type of items that she bought in the boxes below.</p> <div style="display: flex; justify-content: space-around; align-items: flex-end;"> <div style="text-align: center;"> <input type="checkbox"/> Bar-B-Que         </div> <div style="text-align: center;"> <input type="checkbox"/> Juice         </div> <div style="text-align: center;"> <input type="checkbox"/> Ice-cream         </div> </div> <p><b>Answer:</b></p> <div style="display: flex; justify-content: space-around; align-items: flex-end;"> <div style="text-align: center;"> <div style="border: 1px solid black; padding: 2px; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; margin: 0 auto;">1</div> <p>Bar-B- Que</p> </div> <div style="text-align: center;"> <div style="border: 1px solid black; padding: 2px; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; margin: 0 auto;">1</div> <p>Juice</p> </div> <div style="text-align: center;"> <div style="border: 1px solid black; padding: 2px; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; margin: 0 auto;">2</div> <p>Ice - cream</p> </div> </div>	<p>a. Cost of 1 box of Bar-B-Que = \$25.00 Cost of 2 packs of juice at \$14.50 per pack = <math>\\$14.50 \times 2</math> = <math>\\$14.50 + \\$14.50</math> = <math>\\$14 + \\$14 + \\$1</math> = \$29.00 Total cost to Marvin = <math>\\$25 + \\$29</math> = \$54</p> <p>b. Mary's bill for 4 items is \$70.00. Mary bought at least one of each item:</p> <p>1 box of Bar-B-Que = \$25.00 1 juice = \$14.50 1 ice cream = \$15.25 Total cost of 3 items = \$54.75 Amount Mary had left to spend on the 4<sup>th</sup> item = <math>\\$70 - \\$54.75</math> = \$15.25</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="width: 30px;">\$</th> <th style="width: 30px;">cents</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">69</td> <td style="text-align: center;">100</td> </tr> <tr> <td style="text-align: center;"><del>70</del></td> <td style="text-align: center;">00</td> </tr> <tr> <td style="text-align: center;">-</td> <td style="text-align: center;">54 75</td> </tr> <tr> <td style="text-align: center;">15</td> <td style="text-align: center;">25</td> </tr> </tbody> </table> <p>For \$15.25 Mary can buy an ice-cream. Mary bought 1 Bar-b-Que, 1 juice and 2 Ice-creams.</p>	\$	cents	69	100	<del>70</del>	00	-	54 75	15	25	
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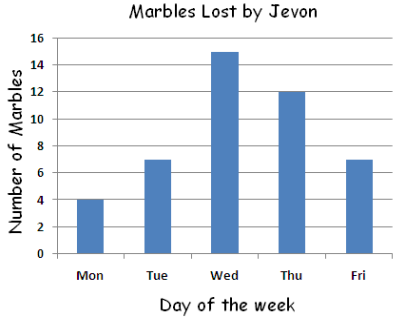
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here
18.	<p>Sameer made the frame of a solid using straws and plasticine.</p> <p>He used 12 straws of the same length for the edges.</p> <p>Name the solid Sameer made.</p> <p><b>Answer: Cube</b></p>	<p>If the 12 straws used are of the same length, he made a cube.</p>  <p>There are 4 edges on the base 4 edges on the top and 4 vertical edges.</p> <p>The shape of the solid is a cube, as shown above.</p>	
19.	<p>Alicia's bedroom window has the following pattern.</p>  <p style="text-align: center;">Mirror Line</p>  <p>Draw the image of Alicia's window when flipped about the mirror line.</p>	<p>The image of the window is obtained by flipping the object on the mirror line.</p>  <p style="text-align: center;">Alicia's bedroom window</p> <p style="text-align: center;">Mirror Line</p>	

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here																
20.	<p>Complete the table below.</p> <table border="1" data-bbox="289 474 748 957"> <thead> <tr> <th>Shapes</th> <th>No. of lines of symmetry</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td></td> </tr> </tbody> </table>	Shapes	No. of lines of symmetry							<p>The lines of symmetry of the objects are shown dotted. When the object is folded along its line of symmetry there is no over-lapping.</p> <table border="1" data-bbox="846 615 1240 989"> <thead> <tr> <th>Shapes</th> <th>No. of lines of symmetry</th> </tr> </thead> <tbody> <tr> <td></td> <td>1</td> </tr> <tr> <td></td> <td>0</td> </tr> <tr> <td></td> <td>2</td> </tr> </tbody> </table>	Shapes	No. of lines of symmetry		1		0		2	
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	0																		
	2																		
21.	<p>a. Shade all the plane shapes that are faces of a triangular prism.</p> <p></p> <p>b. Draw the net of the triangular prism.</p> 	<p>a. A triangular prism has 3 rectangular faces, 2 triangular faces.</p>  <p>We shade as shown:</p>  <p>b. The net is the flat shape that will form the prism, when folded:</p> 																	

No.	TEST ITEMS	WORKING COLUMN	<i>Do Not Write Here</i>																									
22.	<p>Marcus tallied the following information based on his friends' favourite meals. Complete the tally chart.</p> <table border="1" data-bbox="289 606 748 747"> <thead> <tr> <th>Meal</th> <th>Tally</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Roti</td> <td>        </td> <td>13</td> </tr> <tr> <td>Pelau</td> <td></td> <td>9</td> </tr> </tbody> </table>	Meal	Tally	Number	Roti		13	Pelau		9	<p>The tally chart is shown completed.</p> <table border="1" data-bbox="786 485 1268 674"> <thead> <tr> <th>Meal</th> <th>Tally</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Roti</td> <td>        </td> <td>13</td> </tr> <tr> <td>Pelau</td> <td>    </td> <td>9</td> </tr> </tbody> </table>	Meal	Tally	Number	Roti		13	Pelau		9								
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23.	<p>The table below shows the snacks sold at a school cafeteria for the week.</p> <table border="1" data-bbox="350 1068 699 1241"> <thead> <tr> <th>Items</th> <th>Packs Sold</th> </tr> </thead> <tbody> <tr> <td>Corn Curls</td> <td>432</td> </tr> <tr> <td>Juice</td> <td>791</td> </tr> <tr> <td>Red Mango</td> <td>260</td> </tr> <tr> <td>Cherries</td> <td>325</td> </tr> </tbody> </table> <p>a. How many more packs of Corn Curls were sold than packs of Red Mango?</p> <p><b>Answer: 172 packs</b></p> <p>b. Based on this week's sales, which item do you think would be sold the most next week?</p> <p><b>Answer: Juice</b></p>	Items	Packs Sold	Corn Curls	432	Juice	791	Red Mango	260	Cherries	325	<p>a. Number of packs of Corn Curls sold = 432          Number of packs of Red Mango sold = 260          The number of packs of Corn Curls sold is more than the number of packs of Red Mango sold by <math>(432 - 260) = 172</math></p> <table border="1" data-bbox="841 1276 1019 1503"> <thead> <tr> <th>H</th> <th>T</th> <th>O</th> </tr> </thead> <tbody> <tr> <td>3</td> <td>13</td> <td></td> </tr> <tr> <td><del>4</del></td> <td><del>3</del></td> <td>2</td> </tr> <tr> <td>2</td> <td>6</td> <td>0</td> </tr> <tr> <td>1</td> <td>7</td> <td>2</td> </tr> </tbody> </table> <p>b. The sales for this week show that Juice was the item that was sold the most. If this pattern continues in the next week then Juice will be sold the most.</p>	H	T	O	3	13		<del>4</del>	<del>3</del>	2	2	6	0	1	7	2	
Items	Packs Sold																											
Corn Curls	432																											
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No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here																		
24.	<p>The pictograph below shows the make of cars owned by teachers in a school.</p> <table border="1" data-bbox="289 562 748 695"> <tr> <td>Honda</td> <td></td> <td>15</td> </tr> <tr> <td>Nissan</td> <td></td> <td></td> </tr> <tr> <td>Toyota</td> <td></td> <td></td> </tr> </table> <p>a. Complete the key below.</p> <p><b>Answer:</b>  = 5 teachers</p> <p>b. How many teachers owned Nissan cars?</p> <p><b>Answer: 10 teachers</b></p> <p>c. *Twenty Toyota cars are owned by teachers. Complete the pictograph to represent the number of teachers who own Toyota cars.</p> <p><b>Answer:</b></p> <table border="1" data-bbox="300 1472 704 1671"> <tr> <td>Honda</td> <td></td> <td>15</td> </tr> <tr> <td>Nissan</td> <td></td> <td><b>10</b></td> </tr> <tr> <td>Toyota</td> <td></td> <td><b>20</b></td> </tr> </table> <p>*It is more accurate to say "The number of teachers who own Toyota cars is 20"</p>	Honda		15	Nissan			Toyota			Honda		15	Nissan		<b>10</b>	Toyota		<b>20</b>	<p>a. From the diagram, 3 car pictures represent 15 teachers. 1 car picture will therefore represent <math>15 \div 3 = 5</math> teachers.</p> <p>b. The row that corresponds to Nissan cars shows 2 cars. 1 picture represents 5 teachers 2 pictures represent <math>5 \times 2 = 10</math> teachers The number of teachers who owned Nissan cars = 10</p> <p>c. The number of teachers who own Toyota cars = 20. To represent 20 Toyota cars, we need <math>20 \div 5 = 4</math> car pictures</p> <p>One car picture is already drawn. Therefore, we would require 3 more pictures to complete the pictograph to show the number of Toyota cars that teachers own.</p>	
Honda		15																			
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Toyota		<b>20</b>																			

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here												
25.	<p>The bar graph below represents the number of marbles Jevon lost in a week.</p>  <p style="text-align: center;">Marbles Lost by Jevon</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Day of the week</th> <th>Number of Marbles</th> </tr> </thead> <tbody> <tr> <td>Mon</td> <td>4</td> </tr> <tr> <td>Tue</td> <td>7</td> </tr> <tr> <td>Wed</td> <td>15</td> </tr> <tr> <td>Thu</td> <td>12</td> </tr> <tr> <td>Fri</td> <td>7</td> </tr> </tbody> </table> <p>a. On which two days did Jevon lose the same number of marbles?</p> <p><b>Answer: Tuesday and Friday</b></p> <p>b. How many marbles did he lose in all?</p> <p><b>Answer: 45 marbles</b></p> <p>c. At the beginning of the week, Jevon had 75 marbles. How many marbles did Jevon have at the end of the week?</p> <p><b>Answer: 30 marbles</b></p>	Day of the week	Number of Marbles	Mon	4	Tue	7	Wed	15	Thu	12	Fri	7	<p>a. The same number of marbles was lost on the days that correspond to bars that are of the same height. These days therefore, could only be Tuesday and Friday.</p> <p>b. Number of marbles lost on:</p> <p>Monday = 4          Tuesday = 7          Wednesday = 15 +          Thursday = 12          Friday = <u>7</u>          Hence, total lost = <u>45</u></p> <p>c. At the start of the week the number of marbles Jevon had = 75          The total number of marbles lost = 45</p> <p>The number of marbles Jevon had at the end of the week          = The number he had at the start - The number that he lost          = 75 - 45          = 30</p>	
Day of the week	Number of Marbles														
Mon	4														
Tue	7														
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END OF TEST