FAS-PASS
Maths

NATIONAL TEST 2013
Mathematics – Standard I

NO.	TEST ITEMS	WORKING COLUMN	*Do Not Write Here*
1.	Write in words the number 27. **Answer: Twenty seven**	The number is 27. Tens Ones 2 7 2 tens is $2 \times 10 = 20$ = twenty 7 ones is $7 \times 1 = 7$ = seven 27 in words is twenty seven	
2.	Order the numbers from the smallest to the largest. **63 56 65** **Answer:** 56 63 65	The tens digit of the numbers are 6, 5 and 6. 5 is the smallest of the three. Therefore, the number that starts with 5, which is 56, is the smallest number. The remaining two numbers are 63 and 65. They both have the same tens digit. Their ones digit are 3 and 5 and 3 is smaller than 5. So 63 is smaller than 65. **Tens** | **Ones** 5 | 6 6 | 3 6 | 5 The numbers from the smallest to the largest are 56, 63 and 65.	

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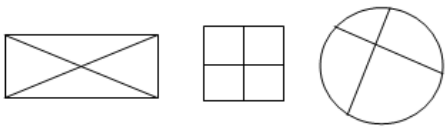
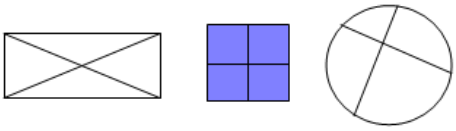
3.	Add 54 and 38. **Answer: 92**	<table><tr><th></th><th>T</th><th>O</th></tr><tr><td></td><td>1</td><td></td></tr><tr><td></td><td>5</td><td>4</td></tr><tr><td>+</td><td>3</td><td>8</td></tr><tr><td></td><td>9</td><td>2</td></tr></table> Adding the ones 4 + 8 = 12 = **1** ten and 2 ones Adding the tens 5 + 3 + **1** = 9 54 + 38 = 50 + 4 + 30 + 8 = 50 + 30 + 4 + 8 = 80 + 12 = 80 + 10 + 2 = 90 + 2 = 92	
4.	Shade the whole with four equal parts.  **Answer:** 	All the shapes are divided into 4 parts. Only the square is divided into 4 equal parts. Hence, the square is shaded.	

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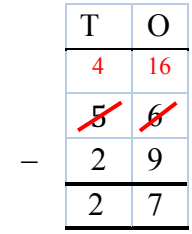
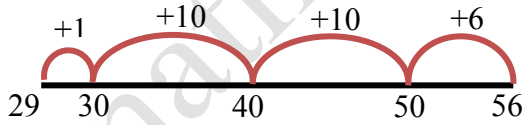
5.	From 56, take 29. **Answer: 27**	 5 tens and 6 ones = 4 tens and 16 ones Subtract ones 16-9=7 ones Subtract tens 4-2= 2 tens OR Counting on from 29: 1 + 10 + 10 + 6 = 27 	
6.	Complete the number sequence. 78, 68, 58, ___, ___ **Answer:** 78, 68, 58, **48**, **38**	Subtract 10 Subtract 10 Pattern The 'ones' digit in all three numbers are all 8. In each number, the tens digit is one less than the number from before. Each number is 10 less than the number before 58–10 = 48 48 10 = 38 The next two numbers should be 48 and 38	

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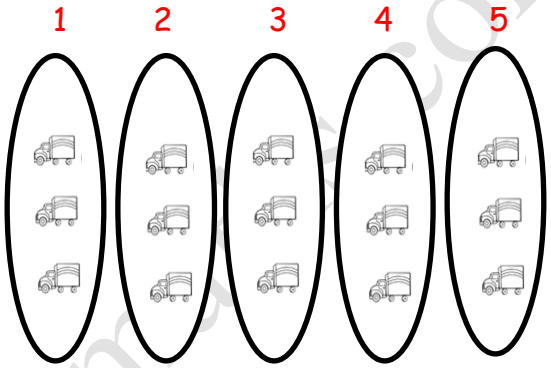
7.	These are Bob's toy trucks.  Bob shares them equally among his five friends. How many toy trucks will each friend get? **Answer: 3 trucks**	There are 5 friends and each must get the same number of trucks. Draw 5 sets and share one truck at a time until no trucks are left.  Each friend will receive 3 trucks.	
8.	Jenna bought 6 packs of crayons. Each pack had 4 crayons. How many crayons did she buy altogether? **Answer: 24 crayons**	Each pack has 4 crayons. There are 6 packs. The number of crayons bought $= 4 + 4 + 4 + 4 + 4 + 4$ $= 4 \times 6$ $= 24$	

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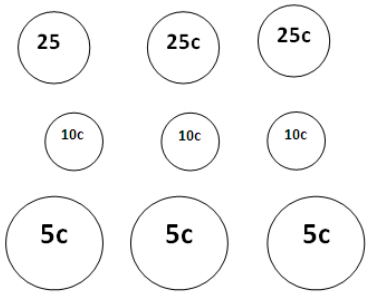
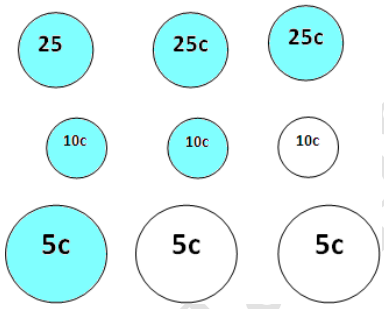
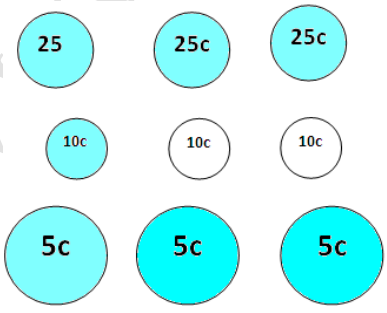
9.	Shade the coins that make up one dollar.  **Answer:**  **OR**  	To make up one dollar we can use 3 of 25¢ $= 25 + 25 + 25 =$ 75 c 2 of 10¢ $= 10 + 10$ = 20 c 1 of 5¢ = 5 c = 100 c **OR** 3 of 25¢ $= 25 + 25 + 25 =$ 75 c 1 of 10¢ = 10 c 3 of 5¢ $= 5 + 5 + 5$ = 15 c = 100 c	

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10.	Tick (√) the box next to the correct answer. The height of a classroom is ☑ more than a metre ☐ less than a metre ☐ equal to a metre	The height of a child is more than than a metre. The height of a classroom is greater than the height of a child. The height of a classroom is therefore more than one metre.	
11.	The digital clock shows the time that Tom left school. **3:00** Draw the hands on the clock to show this time.  **Answer:** 	The digital clock shows 3:00 which is 3 o'clock. The minute hand should point to 12 and the hour hand should point to the hour which is 3.	

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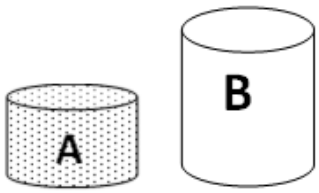
12.	Container A is filled and container B is empty.  About how many of container A is needed to fill container B? **Answer: 2**	The width container A appears to be the same as the width of container B. Container B is about twice the height of Container A. Therefore, it would take about 2 of Container A to fill Container B.	

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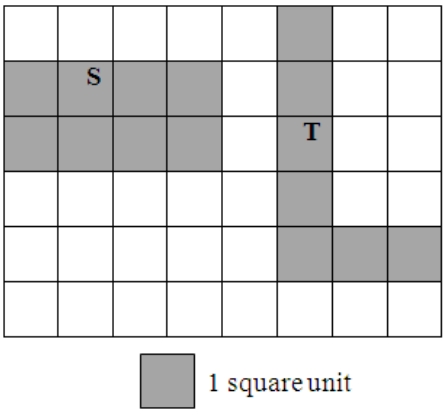
13.	Two shapes, S and T are drawn on a grid.  		
a.	What is the area of shape T? **Answer: 7 square units**	a. By counting, shape T is made up of 7 squares. Since each square has an area of 1 square unit, then the area of T = 7 square units	
b.	Which shape is smaller in area? **Answer: T**	b. By counting shape S is made up of 8 squares. Therefore, the area of S 8 square units 7 is less than 8. Therefore, T has a smaller area than S.	

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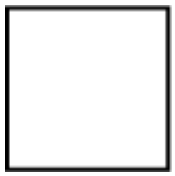
14.	Andy bought: 5 plums at \$1.00 each 1 gift box for \$8.00 He paid with \$20.00. How much change did he get? **Answer: \$7**	Cost of 5 plums at \$1 each $= \$1 + \$1 + \$1 + \$1 + \$1$ $= \$1 \times 5$ $= \$5$ Cost of the gift box = \$8 Then the total cost of 5 plums and 1 gift box = \$8 + \$5 = \$13 Andy paid with \$20. Andy's change = \$20 - \$13 = \$7	
15.	Name a shape with four equal sides. **Answer: Square**	A shape with four equal sides is a square. 	

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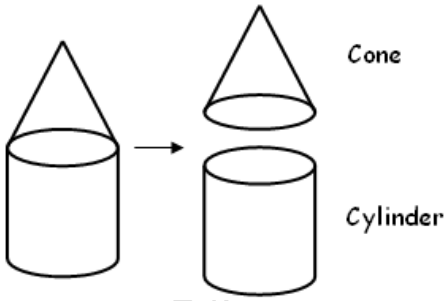
16.	Two solids make up the shape.  Name the two solids. **Answer: (i) Cylinder** **(ii) Cone**	The given shape is a cylinder with a cone on top. 	

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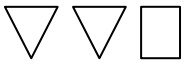
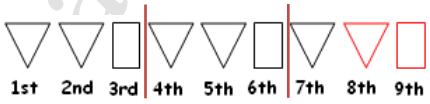
17. a.	Draw the next **two** shapes in the sequence.  **Answer:** 	a. The repeated unit in the sequence of shapes is made up of two triangles followed by a rectangle.  To continue the pattern, the next two shapes in the unit are   	
b.	Circle the name of the **12th** shape in the pattern. Triangle Rectangle	b. Every 3rd shape is a rectangle. Rectangles will be the 3rd, 6th, 9th, 12th, 15th, and so on  The 12th shape is a rectangle	

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18.	The table below shows the favourite colour of 20 children. **Colour** / **Tally** / **No. of children** Red / 𝍸 ||| / 8 Blue / 𝍸 || / 7 Green / / 5	a. 5 children chose green as their favourite colour. **Colour** / **Tally** / **No. of children** Red / 𝍸 ||| / 8 Blue / 𝍸 || / 7 Green / 𝍸 / 5	
a.	Complete the table. **Answer:** **Colour** / **Tally** / **No. of children** Red / 𝍸 ||| / 8 Blue / 𝍸 || / 7 Green / 𝍸 / 5	b. The largest number from 8, 7 and 5 is 8. Therefore, the favourite colour of most children is red.	
b.	What is the favourite colour of most children? **Answer: Red**		

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19.	The table shows the make of cars parked in a car park. **Type of car** / **Number of cars** Toyota / 17 Lancer / 12 Kia / 11	a. The largest number from 17, 12 and 11 is 17. Therefore, the most popular car is Toyota. b. The total number of cars parked in the car park = 17 + 12 + 11 = 40	
a.	What is the most popular car? **Answer: Toyota**		
b.	What is the total number of cars in the car park? **Answer: 40 cars**	T O 1 · 1 7 1 2 + 1 1 4 0 Add the ones 7+2+1=10 ones 10 ones =1 ten and 1 one Add the tens 1+1+1+1=4 tens	

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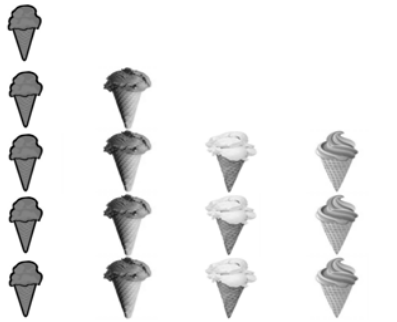
20.	**Favourite ice cream flavours of children**  One cone = 1 child	a. There are 4 cones in the column for chocolate. 1 cone = 1 child Therefore, the number of children who chose chocolate = 4. b. The column for strawberry has 5 cones. Therefore, 5 children chose strawberry. c. The number of children who chose orange pine = 3 The number of children who chose vanilla = 3 Therefore, the total number of children who chose vanilla and orange pine = 3 + 3 = 6	
a.	How many children chose chocolate? **Answer: 4**		
b.	Five children chose **strawberry**.		
c.	The total number of children who chose vanilla and orange pine is **6**.		

END OF TEST