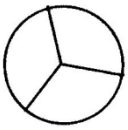
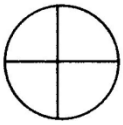
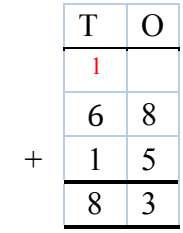
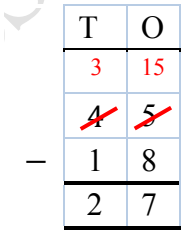
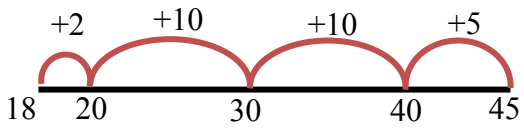
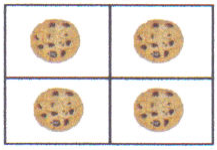
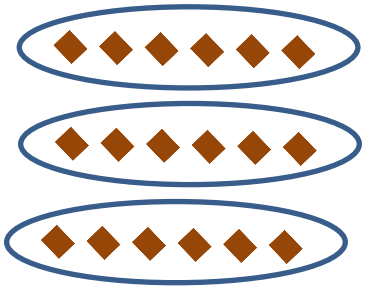
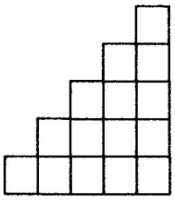
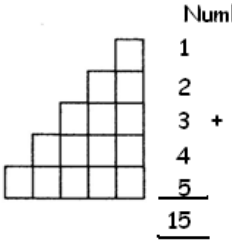
FAS-PASS
Maths

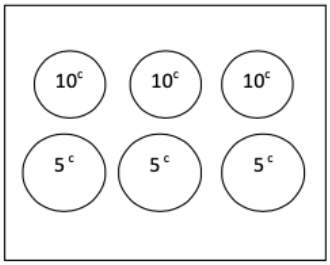
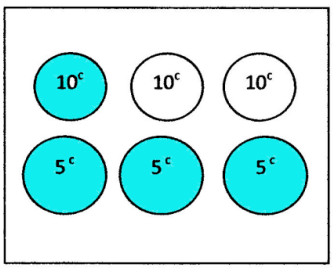
NATIONAL TEST 2012
Mathematics – Standard I

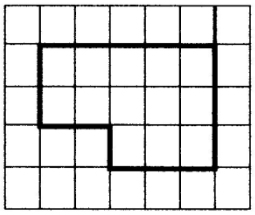
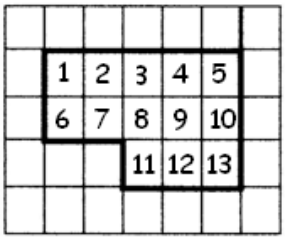
NO.	TEST ITEMS	WORKING COLUMN	*Do Not Write Here*
1.	Circle the larger number. **87** **78** Answer: **87** **78**	<table><tr><th>Tens</th><th>Ones</th></tr><tr><td>8</td><td>7</td></tr><tr><td>7</td><td>8</td></tr></table> 87 = 8 tens + 7 ones 78 = 7 tens + 8 ones 8 tens is larger than 7 tens Therefore, 87 is the larger number, which we now circle.	
2.	Shade the circle that shows thirds.  Answer: 	 This first circle is divided into 3 equal parts and therefore, shows thirds.  This circle is divided into 3 parts. The parts are not equal and therefore do not show thirds.  The circle is divided into 4 equal parts. The parts are equal, and are fourths or quarters. Therefore the circle does not show thirds.	

NO.	TEST ITEMS	WORKING COLUMN	*Do Not Write Here*
3.	Add 68 + 15. **Answer: 83**	 Add the ones 8 + 5 = 13 ones 13 ones=1 ten + 3 ones Add the tens 1 + 6 + 1 = 8 tens OR 68 + 15 = 60 + 8 + 10 + 5 = 60 + 10 + 8 + 2 + 3 = 70 + 10 + 3 =83	
4.	45 – 18 **Answer: 27**	 4 tens and 5 ones = 3 tens and 15 ones Subtract the ones 15 – 8 = 7 ones Subtract the tens 3 – 1 = 2 tens OR 2 + 10 + 10 + 5 = 27 	

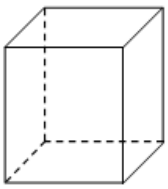
NO.	TEST ITEMS		*Do Not Write Here*
5.	This pack has 4 biscuits.  Peter bought six packs. How many biscuits did he get? **Answer: 24 biscuits**	One pack has 4 biscuits. Therefore, 6 packs will have 6 times as many biscuits. Peter will get 4 + 4 + 4 + 4 + 4 + 4 = 24 biscuits OR $4 \times 6 = 24$ biscuits	
6.	 Mom has 18 blocks of chocolates. She shares them equally among her 3 children. How many chocolates will each child get? **Answer: 6 blocks**	To share 18 equally among 3 children, draw three sets and share one at a time until all 18 are used.  Each child received 6 blocks. OR 18 ÷ 3 = 6	

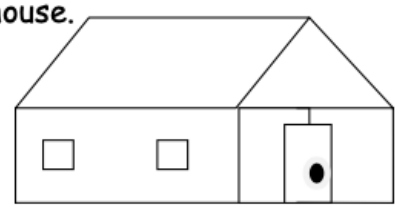
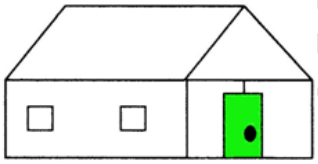
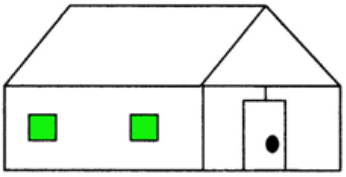
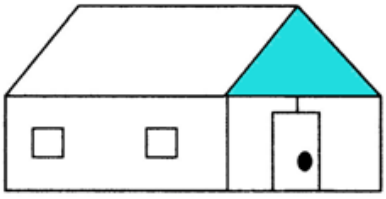
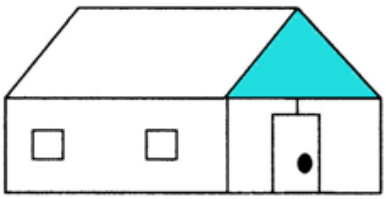
NO.	TEST ITEMS		*Do Not Write Here*
7.	John has a bag with 20 squares. He used some to make this pattern. 	a.  John used 15 squares to make the pattern.	
a.	How many squares did he use? **Answer: 15**	b. The number of squares in the bag = 20	
b.	How many squares are left? **Answer: 5**	The number of squares used = 15 The number of squares remaining = 20 – 15 = 5	
8.	Complete the number pattern below. 5 7 9 ☐ 13 ☐ Answer: 5 7 9 11 13 15	The pattern is formed by adding 2 5 7 9 11 13 15 +2 +2 +2 +2 +2 The numbers 11 and 15 are placed in the correct boxes, as shown.	

NO.	TEST ITEMS	WORKING COLUMN	*Do Not Write Here*
9.	Draw the short hand on the clock to show 5 o'clock.  Answer: 	The minute or long hand points to 12. The hour or short hand must now point to 5 in order to show 5 o'clock.	
10.	Shade the coins to make up 25 cents.  Answer: 	We can make up a total of 25¢ in two different ways. Use all the 5¢ coins and one of the 10¢ coins. 5¢ × 3 = 15¢ + 10¢ × 1 = 10¢ Total = 25¢ **This solution is shown shaded.** **OR:** Use 2 of the 10¢ coins and 1 of the 5¢ coins. 10¢ × 2 = 20¢ + 5¢ × 1 = 5¢ Total = 25¢	

NO.	TEST ITEMS	WORKING COLUMN	*Do Not Write Here*
11.	What is the area of the shape shown below?  1 square unit **Answer: 13 square units**	 We can count the number of squares that make up the given shape. The shape is made up of 13 small squares, each of area 1 square unit. The area of the shape is 13 square units.	
12. a. b.	Circle the unit used to measure the length of a room. metre litre kilogram Circle the item that has a mass of about one kilogram. book pencil person	a. Metre – this is a measure of length. Litre – this is a measure of volume. Kilogram – this is a measure of weight. Hence, the length of the room would be measured in metres. b. Book – a big book will weigh about 1 kilogram. Pencil – a pencil weighs about 3 grams. Person – a man weighs about 75 kilograms. Hence, we circle a book as having a mass of about one kilogram.	

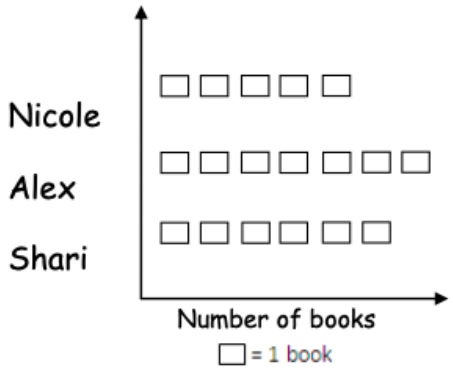
NO.	TEST ITEMS	WORKING COLUMN	*Do Not Write Here*
13.	Don bought one box of milk.  How many more boxes must he buy to make 1 litre? ☐ 1 box ☐ 2 boxes ☑ 3 boxes	One box of milk holds $\frac{1}{4}$ litre of milk. There are 4 quarters $\left(\frac{1}{4}\right)$ in one whole (1). $\therefore$ To buy 1 litre of milk, Don would need to buy 4 boxes of milk in all. Since Don bought 1 box of milk, then he would need to buy 4 – 1 = 3 boxes more to make up a total of 1 litre of milk. We there tick the box with 3.	
14. a. b.	Paul bought a slice of pizza and a can of juice.  How much money did Paul spend? **Answer: $16.00** He paid with $20.00. How much change did he get? **Answer: $4.00**	a. Cost of 1 slice of pizza = $10.00 Cost of 1 can of juice = $6.00 Paul's total cost = $10.00 + $ 6.00 $16.00 b. Amount Paul paid with = $20.00 Cost of pizza and juice = $16.00 The change = $20.00 – $16.00 $ 4.00	

NO.	TEST ITEMS	WORKING COLUMN	*Do Not Write Here*
15.	A solid has only square faces. Name the solid. **Answer: Cube**	The solid has only square faces. Therefore, the solid can only be a cube. A cube is made up of 6 square faces and one is sketched to show them. 	
16.	Draw the next **two** shapes in the sequence.  Answer 	The pattern starts with one triangle followed by two squares.  This unit is repeated as shown  The next three shapes would be one triangle followed by two squares. The next two shapes would be one triangle followed by one square.	

NO.	TEST ITEMS	WORKING COLUMN	*Do Not Write Here*
17.	This is a drawing of Mr. Brown's house. 		
a.	Name the shape of the front door. **Answer: Rectangle**	a. The shape of the front door is a rectangle. This is shown in green. 	
b.	Name the shape of the window. **Answer: Square**	b. There are two windows and each is shaped like a square. These are shown in green 	
c.	Shade a triangle on Mr. Brown's house. Answer: 	c. A triangle is seen above the doorway of the house. This is shown shaded in blue. 	

NO.	TEST ITEMS	WORKING COLUMN	*Do Not Write Here*
18.	The table below shows the favourite ice – cream flavours of Standard 1 children. **Ice-Cream Flavour** / **Tally** / **No. Of Children** Coconut / 𝍸 | / 6 Chocolate / / 9 Strawberry / ||| / Vanilla / 𝍸 / 5 Complete the table. Answer: **Ice-Cream Flavour** / **Tally** / **No. Of Children** Coconut / 𝍸 | / 6 Chocolate / 𝍸 |||| / 9 Strawberry / ||| / 3 Vanilla / 𝍸 / 5	There are two missing parts of the table to complete In the second row we need to insert the tally marks to show a total of nine. This is one group of 5 and 4 ones Chocolate 𝍸 |||| In the third row, we need to insert the total for the tally ||| This represents 3 children	

NO.	TEST ITEMS	WORKING COLUMN	*Do Not Write Here*
19.	The table below shows the number of runs Harry, Pedro and Krish scored in a cricket game. **Student** / **Number Of runs scored** Harry — 16 Pedro — 18 Krish — 5	a. The total number of runs scored by Harry, Pedro and Krish = 16 + 18 + 5 T O 1 · 1 6 1 8 + 5 3 9 Add the ones 6 + 8 + 5 = 19 ones 19 ones=1 ten + 9 ones Add the tens 1 + 1 + 1 = 3 tens	
a.	What is the total number of runs scored? **Answer: 39**	b. Both Harry with 16 and Pedro with 18 scored more runs than Krish who scored 5. Pedro scored 18 – 5 = 13 more runs than Krish. Harry scored 16 – 5 = 11 more runs than Krish. ∴Harry scored 11 more runs than Krish.	
b.	Who scored 11 runs more than Krish? **Answer: Harry**		

NO.	TEST ITEMS	WORKING COLUMN	*Do Not Write Here*
20.	The pictograph shows the number of books borrowed by 3 students.  	Each block (☐) in the pictograph represents 1 block. Therefore, Nicole borrowed 5 books Alex borrowed 7 books Shari borrowed 6 books a. Shari borrowed 6 books. b. The number of books borrowed are 5, 7 and 6. Alex borrowed 7 books, so he borrowed the most books. c. Nicole borrowed 5 books. Alex borrowed 7 books. Alex borrowed more books than Nicole. 7 is two more than 5 or $7 - 5 = 2$ Alex borrowed 2 more books than Nicole.	
a.	How many books did Shari borrow? **Answer: 6 books**		
b.	Who borrowed the most books? **Answer: Alex**		
c.	How many more books did Alex borrow than Nicole? **Answer: 2 books**		

END OF TEST