

## Arithmetic

1.  $\frac{1}{4}$  of 4

2.  $27 + 18$

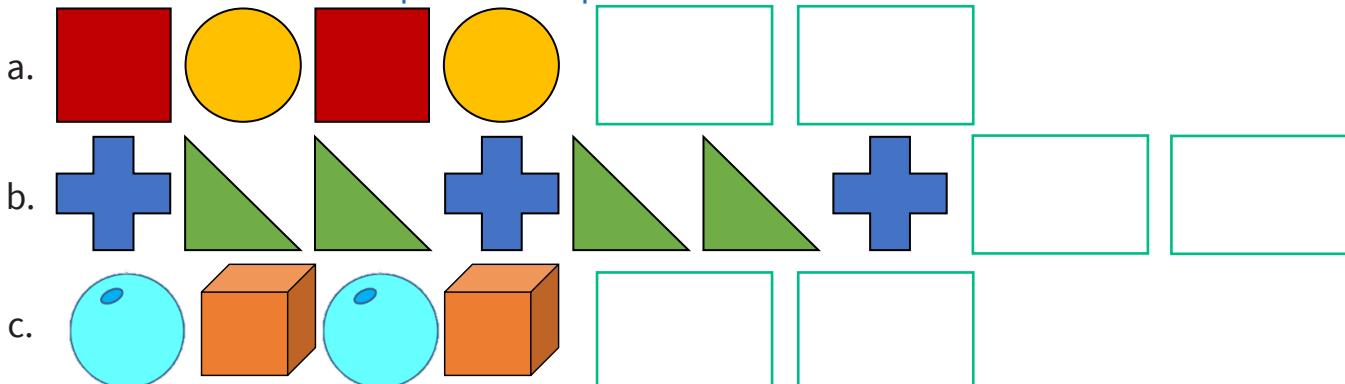
3.  $? = 41 - 19$

4. Double 37 is ?

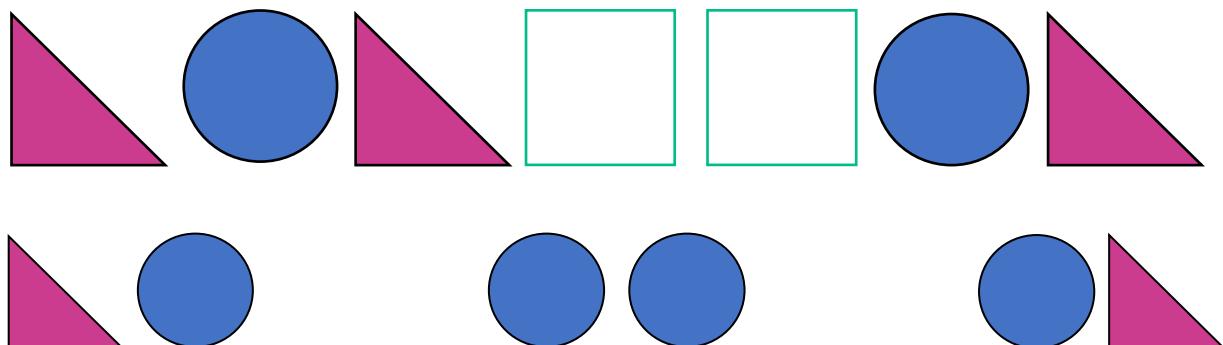


## Practice: Making Patterns with Shapes

5. Draw the next two shapes in each pattern.



6. Circle the shapes that fit in the pattern.



7. Draw an arrow where there is a missing shape in the pattern.



You might want to talk to an adult

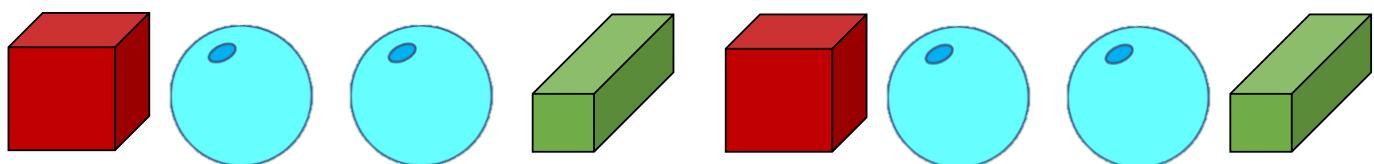


Use resources to help you



Spot the mistake

8. Here is a pattern made with 3D shapes.



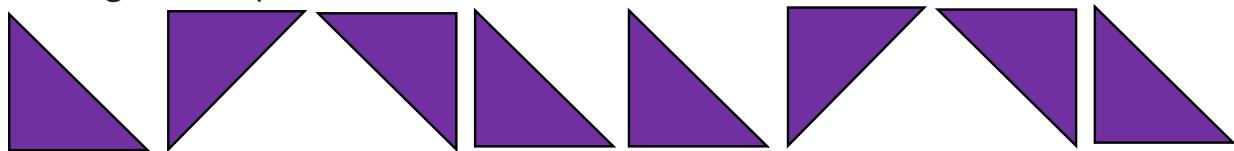
a. What is the name of the 4<sup>th</sup> shape in the pattern?

b. What would be the 10<sup>th</sup> shape in this pattern?

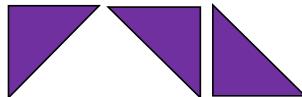
9. Explain how you found the answer to question 8b.



10. Toni is given the pattern below.



She says the next three shapes in the pattern will be



Is Toni right?



11. Create a repeating shape pattern of your own with at least 6 parts to the pattern using 3 different shapes.



How many different patterns could you make?

## Answers

Q no.	Question	Answer
1	$\frac{1}{4}$ of 4	1
2	$27 + 18$	45
3	$? = 41 - 19$	22
4	Double 37 is ?	74
5	Draw the next two shapes in each pattern.	a. Red square, yellow circle, b. Green triangle, green triangle, c. Blue sphere, orange cube
6	Circle the shapes that fit in the pattern.	Circle, triangle
7	Draw an arrow where there is a missing shape in the pattern.	Square, rectangle, circle, square, rectangle, circle, ↓, rectangle, circle, square, rectangle, circle.
8	Here is a pattern made with 3D shapes.	a. Cuboid, b. Sphere
9	Explain how you found the answer to question 8b.	Pupils' answers will vary depending on their method. Most pupils will have continued to draw the pattern to find the tenth shape.
10	Is Toni right?	Toni is not right. She has not repeated the triangle before adding these shapes. The correct answer is 
11	Create a repeating shape pattern of your own with at least 6 parts to the pattern using 3 different shapes.  How many different patterns could you make?	Answers will vary depending on the shapes the pupil has chosen and the pattern they have created. Answers will be correct if they have a repeated pattern with 3 different shapes.