Independent Recap

Measures Week 9

Year 6



Arithmetic	
1. 523,493 + 34,294 2. 374 x 98	3. $\frac{2}{7} + \frac{1}{3}$ 4. 28% of 370
Practice: Area and Perimeter	
5. Recap: Define the terms:	6. Calculate the perimeter of this rectangle. 6cm
7. Calculate the perimeter of this shape. 2cm 4cm 3cm 1cm 5cm 5cm 5cm 5cm 5cm 5cm 5cm 5cm 5cm 5	8. Calculate the perimeter of thisArea = 49cm ²
9. Calculate the area 12cm of this rectangle. 8cm	10. Write a formula for finding the perimeter and area of a rectangle.
11. Calculate the area of this shape.	12. Calculate the area of this square.
13. Lee has drawn a square with the perimeter of 24cm. He says the area is 12 cm ² . Is Lee correct? Explain.	

14. Draw 3 different shapes with the same area but different perimeters.

Draw 3 shapes with the same perimeter but different areas.







Challenge

Q no.	Question	Answer
1	523,493 + 34,294	557,787
2	374 x 98	36,652
3	$\frac{2}{7} + \frac{1}{3}$	<u>13</u> 21
4	28% of 370	103.6
5	Define the terms: Area, Perimeter	Area is the amount of space occupied by a 2D shape. Perimeter is the distance around the edge of a shape.
6	Calculate the perimeter of this shape.	26cm
7	Calculate the perimeter of this shape.	20cm
8	Calculate the perimeter of this shape.	28cm
9	Calculate the area of this shape.	96cm ²
10	Write a formula for finding the perimeter and area of a rectangle.	Perimeter - 2l + 2h Area - l x h l = length and h = height
11	Calculate the area of this shape.	64cm ²
12	Calculate the area of this shape.	100cm ²
13	Is Lee correct? Explain.	Lee has added the length and the width (6cm and 6cm) instead of multiplying the length and width. The correct answer is 36cm ² .
14	Draw 3 different shapes with the same area but different perimeters.	Accept answers that show six shapes that meet the criteria stated.
	Draw 3 shapes with the same perimeter but different areas.	

Arithmatic	
Arithmetic	
1. 75,473 – 42,288 2. 6,164 ÷ 92	3. $\frac{9}{10} - \frac{1}{4}$ 4. 46% of 700
Practice: Area of a Triangle	
5. Recap: Write a formula for finding the area of a triangle.	6. Calculate the area of this triangle.
7. Calculate the area of this triangle.	8. Calculate the area of this triangle.
9. Calculate the area of this triangle.	10. Explain how you can use the measures of rectangle or square to help find the area of a right-angle triangle.
11. Calculate the area of this triangle. 8cm 4cm	12. A triangle has an area of 36cm ² . If its height is what is its base?
<u>∠ □ </u>	a) 12cm b) 4cm c) 3cm
13. Simona says the triangle has an area of 24cm ² . Is she correct? Explain.	

Challenge

 14. Calculate the area of each triangle. Explain how you have calculated the areas.

 a

 b

 a

 c



You might want to talk to an adult



Q no.	Question	Answer
1	75,473 - 42,288	33,185
2	6,164÷92	67
3	$\frac{9}{10} - \frac{1}{4}$	<u>13</u> 20
4	46% of 700	322
5	Write a formula for finding the area of a triangle.	base x height divided by 2 = area of a triangle
6	Calculate the area of this triangle.	28cm ²
7	Calculate the area of this triangle.	60cm ²
8	Calculate the area of this triangle.	40cm ²
9	Calculate the area of this triangle.	31.5cm ²
10	Explain how you can use the measures of rectangle or square to help find the area of a right-angle triangle.	Two right angle triangles can be created from one rectangle. The base of a right angle triangle becomes the length of the rectangle and the height of the triangle is the height of the rectangle.
11	Calculate the area of this triangle.	22cm ²
12	A triangle has an area of 36cm2. If its height is what is its base?	a) 6cm b) 18cm c) 24cm
13	Is she correct? Explain.	Simona is incorrect. She has calculated the base x the height but has not divided the answer by 2. The correct answer is 12cm ² .
14	Calculate the area of each triangle. Explain how you have calculated the areas.	 a. 7.5cm² b. 4cm² c. 3.5cm² Pupils could count the squares to find the area or they could split the triangle to make a right angle triangle and the height then use this information to calculate the area of each triangle. Alternatively, pupils may create rectangles using the base and height of the triangles and divide the area of the rectangle by two.

Arithmetic	
1. 84,573 + 98,554 2. 2,304 x 73	3. $\frac{4}{5} \times \frac{7}{8}$ 4. 19% of 4,500
Practice: Area of a Parallelogram	
5. Recap: Write a formula to find the area of a parallelogram.	6. Calculate the area of this parallelogram.
7. Calculate the area of this parallelogram.	8. Calculate the area of this parallelogram. 7cm 8cm 12cm
9. Calculate the area of this parallelogram.	10. Explain the link between the area of a parallelogram and a rectangle.
11. A parallelogram has an area of 48cm ² . If its base is what is its height?	12. A parallelogram has an area of 50cm ² . If its height is what is its base?
a. 12cm b. 4cm c. 16cm	a. 25cm b. 0.5cm c. 2.5cm
13. Tayyab is calculating the area of the parallelogram. He says the area is 9cm ² . Is Tayyab correct? Explain.	

14. The area of a parallelogram is 40cm².

Draw three different parallelograms that would have this area. Label the measures of the perpendicular height and base.





Challenge

Q no.	Question	Answer
1	84,573 + 98,554	183,127
2	2,304 x 73	168,192
3	$\frac{4}{5} \times \frac{7}{8}$	$\frac{28}{40}$ or $\frac{7}{10}$
4	19% of 4,500	855
5	Write a formula to find the area of a parallelogram.	base x perpendicular height = area
6	Calculate the area of this parallelogram.	126cm ²
7	Calculate the area of this parallelogram.	7cm ²
8	Calculate the area of this parallelogram.	96cm ²
9	Calculate the area of this parallelogram.	25cm ²
10	Explain the link between the area of a parallelogram and a rectangle.	Pupils should notice that if they take the triangle created by finding the perpendicular height and add it to the other side, it creates a rectangle. A rectangle and parallelogram with the same base and height/ perpendicular height will have the same area.
11	A parallelogram has an area of 48cm ² . If its base is what is its height?	a) 4cm, b) 12cm, c) 3cm
12	A parallelogram has an area of 50cm ² . If its height is what is its base?	a) 2cm, b) 100cm, c) 20cm
13	ls Tayyab correct? Explain.	Tayyab is incorrect. He has not found the perpendicular height and has instead found the base twice. Note that the pupils have not been asked to find the correct answer, only explain why Tayyab is incorrect.
14	The area of a parallelogram is 40cm ² . Draw three different parallelograms that would have this area. Label the measures of the perpendicular height and base.	Accept answers that are clearly labelled and would give an answer of 40cm ² . Possible answers: perpendicular height - 4cm, base - 10cm perpendicular height - 1cm, base - 40cm perpendicular height - 5cm, base - 8cm

Arithmetic	
1. 858,263 – 34,284 2. 3,976 ÷ 7	3. $\frac{3}{4} - \frac{1}{9}$ 4. 6% of 610
Practice: Volume and Volume of a C	Cube
5. Recap: Write a formula for finding the volume of a cube or cuboid.	6. Calculate the volume of this cuboid. 4cm 5cm
7. Calculate the volume of this cube.	8. Calculate the volume of this cuboid. 3cm 10cm 0.5cm
9. Calculate the volume of this cube.	10. Explain the link between area and volume.
11. This cuboid has a volume of 52cm ³ . What is its height? 10cm 2.6cm	12. A cube has a volume of 8cm ³ . What does one side measure?
13. Laurel is calculating the volume of a cuboid measuring 3cm x 4cm x 8cm. She says the volume is 15cm ³ . Is Laurel correct? Explain.	
14. The cube and the cuboid have the same and the cubo and t	

What is the missing measure?

Show how you found your answer.





Q no.	Question	Answer
1	858,263 - 34,284	823,979
2	3,976÷7	568
3	$\frac{3}{4} - \frac{1}{9}$	<u>23</u> 36
4	6% of 610	36.6
5	Write a formula for finding the volume of a cube or cuboid.	length x width x height
6	Calculate the volume of this cuboid.	60cm ³
7	Calculate the volume of this cube.	64cm ³
8	Calculate the volume of this cuboid.	15cm ³
9	Calculate the volume of this cube.	1,000cm ³
10	Explain the link between area and volume.	Area is the amount of space occupied by a 2D shape. Volume is the amount of space within a 3D shape. Area is measured in units squared and volume is measured in units cubed.
11	This cuboid has a volume of 52cm³. What is its height?	2cm
12	A cube has a volume of 8cm ³ . What does one side measure?	2cm
13	Is Laurel correct? Explain.	Laurel is incorrect. She has added the three measures instead of multiplying them. The correct answer is 96cm ³ .
14	The cube and the cuboid have the same volume.	Missing measure = 5cm
	What is the missing measure?	
	Show how you found your answer.	