Independent Recap

Angles and Shape Week 9

Year 3



| 1. 100 + 123 | 2. 234 + 400 | 3. 7 x 4 4. 32 ÷ 8 |
|---|---------------------|--|
| Practice: Turns a | nd Angles | |
| | ind Angles | |
| 5. Recap: How many right angles make: a quarter turn, a half turn, a three quarter turn, a full turn | | 6. Yellow to blue triangle = ? turn |
| | | Yellow to green triangle = ? turn |
| 7. Circle the shapes with right angles. | | 8. Look at the shapes you've circled in question |
| 9. Draw three different right angles. 11. Which of these letters has an obtuse angle 11. Which of these letters has an obtuse angle | | 7. How many right angles does each one have inside it? |
| | | 10. Define a right angle. |
| | | 12. Which of these letters has an acute angle inside it? E V T Z N |
| | | |
| | | using shapes that all |
| | | bes with right angles. |

| Q no. | Question | Answer | |
|-------|--|---|--|
| 1 | 100 + 123 | 223 | |
| 2 | 234 +400 | 634 | |
| 3 | 7 x 4 | 28 | |
| 4 | 32 ÷ 8 | 4 | |
| 5 | How many right angles make: a quarter turn, a half turn, a three quarter turn, a full turn | right angles, full turn = four right angles. | |
| 6 | Yellow to blue triangle = ? turn. Yellow to green triangle = ? turn | Yellow triangle to blue triangle = half turn (or two right angle turns) Yellow to green triangle = three-quarter turn clockwise or quarter turn anti-clockwise | |
| 7 | Circle the shapes with right angles. | Shapes 1, 4, 5 and 6 circled. | |
| 8 | Look at the shapes you've circled in question 7. How many right angles does each one have inside it? | Shape 1: 4, shape 4: 5, shape 5: 8, shape 6: 1 | |
| 9 | Draw three different right angles. | Any 3 correctly drawn right angles (could be together in a shape or separate pairs of perpendicular lines) | |
| 10 | Define a right angle. | A right angle is an angle that measures exactly 90° | |
| 11 | Which of these letters has an obtuse angle inside it? | Υ, Χ | |
| 12 | Which of these letters has an acute angle inside it? | V, Z, N | |
| 13 | Is he right? | Jeremiah has used a three quarter turn clockwise or a quarter turn anti-clockwise to make the blue shape, not a half turn. | |
| 14 | Look at the image, it has been made using shapes that all contain right angles. Draw a picture of your own that uses shapes with right angles. | Accept any picture that uses shapes with right angles. | |



14. Draw 6 overlapping lines in the box. Colour right angles in blue, acute angles in red and obtuse angles in green.







| Q no. | Question | Answer | |
|-------|---|--|--|
| 1 | 1,034 - 100 | 934 | |
| 2 | 5,203 - 30 | 5,173 | |
| 3 | 2 x 8 | 16 | |
| 4 | 16÷4 | 4 | |
| 5 | What is an angle? | An angle is made when two lines meet. | |
| 6 | Draw hands on the clock that show an acute angle. What is the time shown? | Accept any answer where the hands make an acute angle and the time is accurate. | |
| 7 | Circle the largest angle. | a is larger | |
| 8 | Circle the smallest angle. | a is smaller | |
| 9 | Circle the angle in the triangle that is the largest. | | |
| 10 | Complete the sentences: | An acute angle is smaller than a right angle. An obtuse angle is larger than a right angle. | |
| 11 | Label the acute angles in the shapes. | Blue triangle - two acute angles, yellow triangle - all acute, purple rhombus - two acute angles. | |
| 12 | Find 3 acute and 3 obtuse angles in the diagram. | Correctly identified angles. | |
| 13 | Explain Daanish's mistake. | Daanish has overgeneralised his understanding of angles. He has previously been presented with images of angles as two lines joining and assumed that angles are only two lines. It is important to understand that angles are when two lines meet, including lines in shapes. | |
| 14 | Draw 6 overlapping lines in the box. Colour right angles in blue, acute angles in red and obtuse angles in green. | overlapping the box. Colour gles in blue, ngles in red and | |

| Arithmetic | | |
|--|--|--|
| 1. 976 + 100 2. 408 - 30 | 3. 5 x 9 4. 21 ÷ 3 | |
| Practice: Describing Lines | | |
| 5. Recap: Explain how to use a ruler accurately to draw and measure a line. | 6. Using a ruler, draw a horizontal line and a vertical line. | |
| 7. Show a time on the clock face where both hands are vertical. What is the time? | 8. Label the horizontal lines in these images using an 'h'. | |
| 9. Label the vertical line in the images using a 'v'. | 10. Explain what a horizontal line of symmetry is. | |
| 11. Circle the letters with horizontal lines of symmetry.M E T O H L | 12. Circle the letters with vertical lines of symmetry.A W B V Z U | |
| 13. Sean says Z has a vertical and horizontal line of symmetry. Is this right? Explain. | | |

14. Write a name in capitals using only straight lines. Colour all the horizontal lines in one colour and vertical lines in another colour, create a key for these colours.





Challenge

| Q no. | Question | Answer | |
|-------|--|---|--|
| 1 | 976 + 100 | 1,076 | |
| 2 | 408 - 30 | 378 | |
| 3 | 5 x 9 | 45 | |
| 4 | 21÷3 | 7 | |
| 5 | Explain how to use a ruler accurately to draw and measure a line. | To use a ruler to draw a measured line or measure a line, the pupil must start on 0cm, not 1cm or the end of the ruler (if it does not start on 0cm). | |
| 6 | Using a ruler, draw a horizontal line and a vertical line. | A horizontal line is a straight line from left to right. A vertical line is a straight line from top to bottom. | |
| 7 | Show a time on the clock face where both hands are vertical. What is the time? | The time is 12 o'clock. It cannot be 6:30 as both lines would not be vertical for the time to be accurate. | |
| 8 | Label the horizontal lines in these images using an 'h'. | Correctly identified horizontal lines. | |
| 9 | Label the vertical line in the images using a 'v'. | Correctly identified vertical line. | |
| 10 | Explain what a horizontal line of symmetry is. | A horizontal line of symmetry is a line of symmetry that runs from left to right across th shape. | |
| 11 | Circle the letters with horizontal lines of symmetry. | Е, О, Н | |
| 12 | Circle the letters with vertical lines of symmetry. | A, W, V, U | |
| 13 | Sean says Z has a vertical and horizontal line of symmetry. Is this right? Explain. | Sean is not right. Z does not have a vertical or horizontal line of symmetry. | |
| 14 | Write a name in capitals using only straight lines. Colour all the horizontal lines in one colour and vertical lines in another colour, create a key for these colours. | Answers will vary depending on the letters the pupil has selected. | |

| L | 1. 2,000 + 698 | 2. 5,382 – 40 | 3. 6 x 11 | 4. 21 ÷ 3 |
|--|--|----------------------|--|------------------|
| F | Practice: Parallel | and Perpendicula | r Lines | |
| | 5. Recap: Define parallel lines. | and perpendicular 🧔 | 6. Draw a set of parallel lines and a set of perpendicular lines. Label them. | |
| | 7. Draw a line parallel to a. and draw a line that is perpendicular to b. a. b. 9. Circle the letters with parallel lines. F H Z W D E 11. Circle the letters with perpendicular lines. Z Y L F T U | | 8. The hands on the clock are parallel perpendicular | |
| | | | 10. Is it possible to draw a polygon without parallel or perpendicular lines? Prove it. | |
| | | | 12. Circle the shape if it tick if it has perpendicul | • |
| 13. Addison says he has labelled the parallel lines with arrows. Is Addison right? Explain. | | | | |
| Cliancelige | 14. Write as many statements about the lines in the shape as possible. Horizontal/vertical Parallel/perpendicular | | ole. | |

| Q no. | Question | Answer | |
|-------|--|---|--|
| 1 | 2,000 + 698 | 2,698 | |
| 2 | 5,382 - 40 | 5,342 | |
| 3 | 6 x 11 | 66 | |
| 4 | 21÷3 | 7 | |
| 5 | Define parallel and perpendicular lines. | Parallel lines always stay the same distance apart and will never meet. Perpendicular lines are a pair of lines that meet at a right angle. | |
| 6 | Draw a set of parallel lines and a set of perpendicular lines. Label them. | Accurately drawn parallel and perpendicular lines. | |
| 7 | Draw a line parallel to a and draw a line that is perpendicular to b. | Accurate lines draw. | |
| 8 | The hands on the clock are parallel, perpendicular | Perpendicular | |
| 9 | Circle the letters with parallel lines. | F, H, Z, E | |
| 10 | Is it possible to draw a polygon without parallel or perpendicular lines? Prove it. | Polygons are shapes with three or more straight lines that join. It is possible to draw a polygon without parallel and perpendicular lines regular pentagons, for example, do not have parallel or perpendicular lines. | |
| 11 | Circle the letters with perpendicular lines. | L, F, T | |
| 12 | Circle the shape if it has parallel lines and tick if it has perpendicular lines. | Circled: square, trapezium, rectangle, rhombus Ticked: square, triangle, rectangle | |
| 13 | Is Addison right? Explain. | Addison has identified a set of perpendicular lines as they meet at a right angle. This highlights a lack of understanding of parallel and perpendicular lines. | |
| 14 | Write as many statements about the lines in the shape as possible. Horizontal/ vertical Parallel/ perpendicular | Accept any sentences that are accurate. Example answers: The shape has 5 horizontal lines. The shape has 4 vertical lines. | |