Year 2 Mathematics
Fractions: Eighths - Worksheet 29

Visualizing Eighths in Shapes
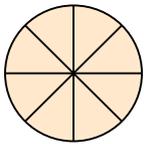
Name: _____   **Date:** _____
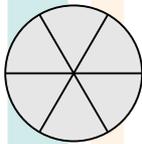
Section 1: Identify Eighths (Fluency)

Look at the shapes. Identify which ones show eighths (8 equal parts).

Question 1: Tick (✓) the pizza that is cut into eighths (8 equal slices):
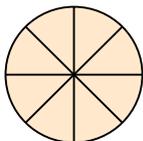
Pizza A: **Pizza B:**

Answer: Pizza _____ is cut into eighths.

Question 2: How many eighths make one whole?

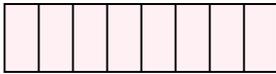**Answer:** _____ eighths make one whole.

Question 3: Look at this circle:

Is this circle divided into eighths?

Circle your answer: YES   NO

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Question 4: Count the pieces. How many equal parts?
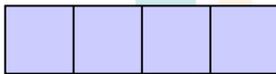
Answer: _____ equal parts.

Question 5: True or False: An eighth means 8 equal pieces.

Circle your answer: TRUE   FALSE

Question 6: Which shape shows eighths?

Shape A: **Shape B:**

Answer: Shape _____ shows eighths.

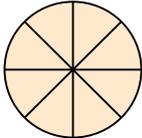### Excellent Eighths Octopus!

Why did the octopus love eighths? Because it had EIGHT awesome legs!

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Section 2: Colouring Eighths (Reasoning)

Colour the correct number of eighths in each shape.

Question 7: Colour one eighth of the circle:

Question 8: Colour three eighths of the rectangle:
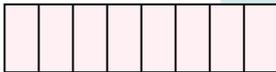
Question 9: Colour four eighths of the circle:
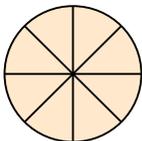
Question 10: How many eighths are coloured?
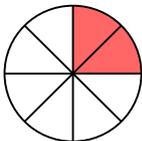
Answer: _____ eighths are coloured.

Question 11: Colour five eighths of the rectangle:

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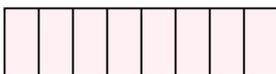
Question 12: If I colour 8 eighths, what do I have?

Answer: _____

Pizza Fraction Master!

What did the pizza say about fractions? "I'm in PIECES over eighths!"

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Section 3: Repeated Halving Challenge

Understand how halving creates eighths.

Question 13: If I cut a quarter (one piece from 4) in half, what size piece do I get?

Answer: _____

Question 14: Fill in the blanks:

Half of a half is a _____.

Half of a quarter is an _____.

Question 15: Draw lines on this circle. First cut it into quarters (4 parts). Then cut each quarter in half to make eighths:
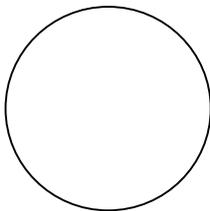
Question 16: True or False: If I keep halving, I get smaller and smaller pieces.

Circle your answer: TRUE   FALSE

Question 17: How many quarters are in one whole?

Answer: _____ quarters

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Question 18: If one whole has 4 quarters, and each quarter splits into 2 pieces, how many pieces altogether?

Answer: _____ pieces (these are eighths!)

Fraction Spider Friend!

Why did the spider love fractions? Because it had EIGHT legs for counting eighths!

Answer Key
Worksheet 29: Visualizing Eighths

Section 1: Identify Eighths

1. **Pizza A** is cut into eighths (8 equal slices)

2. **8 eighths** make one whole

3. **YES** (the circle is divided into 8 equal parts)

4. **8 equal parts**

5. **TRUE** (an eighth means 8 equal pieces make one whole)

6. **Shape B** shows eighths (8 equal strips)

Section 2: Colouring Eighths

7. Colour **1 slice** (one eighth) of the circle

8. Colour **3 strips** (three eighths) of the rectangle

9. Colour **4 slices** (four eighths or one half) of the circle

10. **2 eighths** are coloured

11. Colour **5 strips** (five eighths) of the rectangle

12. **One whole** (8 eighths = 1 whole)

Section 3: Repeated Halving Challenge

13. **An eighth** (half of a quarter is one eighth)

14. Half of a half is a **quarter**. Half of a quarter is an **eighth**.

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15. Drawing should show 8 equal slices (first 4 lines for quarters, then 4 more between them for eighths)

16. **TRUE** (repeated halving creates smaller pieces)

17. **4 quarters** in one whole

18. **8 pieces** (4 quarters × 2 = 8 eighths)

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SCAN FOR HELP

Year 2 Mathematics
Fractions: Eighths - Worksheet 30

Eighths in Collections & Sharing

Name: _____   **Date:** _____

Section 1: Eighth of a Group (Fluency)

Find one eighth of each group.

Question 1: Here are 8 apples. Circle one eighth (1 apple):

Question 2: Here are 16 stars. Circle one eighth (2 stars):
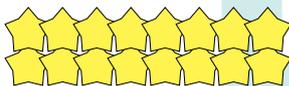
Question 3: I have 8 cookies. If I eat one eighth, how many cookies did I eat?

Answer: _____ cookie(s)

Question 4: There are 24 balloons. What is one eighth of 24?
Hint: 24 ÷ 8 = ?

Answer: _____ balloons

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Question 5: Circle one eighth of these dots:

● ● ● ● ● ● ● ●

Question 6: If I have 32 marbles and take one eighth, how many marbles do I take?

Answer: _____ marbles

Grouping Champion!

Why did 8 friends love fractions? Because they could share EVERYTHING in eighths!

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Section 2: Sharing & Comparing (Reasoning)

Solve these sharing and comparison problems.

Question 7: Share 8 slices of cake equally among 8 people. How many slices does each person get?

Answer: _____ slice(s) each

Question 8: Is one eighth smaller or bigger than one quarter?
Circle your answer: SMALLER   BIGGER

Question 9: Put these fractions in order from smallest to largest:
One half, One quarter, One eighth

Answer: _____

Question 10: Which is bigger: three eighths or one half?
Hint: One half = four eighths

Answer: _____ is bigger

Question 11: I have a chocolate bar divided into 8 squares. I eat 2 squares. What fraction did I eat?

Answer: _____

Question 12: True or False: Four eighths is the same as one half.

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Circle your answer: TRUE   FALSE

Comparing Master!

What did one fraction say to another? "You're smaller than me, but still GREAT!"

Section 3: Word Problems Challenge

Solve these real-life problems about eighths.

Question 13: A spider has 8 legs. It hurts one leg. What fraction of its legs is hurt?

Answer: _____ of its legs

Question 14: I ate 1 eighth of a pizza. My friend ate 2 eighths of the same pizza. How many eighths did we eat altogether?

Answer: _____ eighths

Question 15: An octopus has 8 arms. It waves 3 arms. What fraction of its arms is it waving?

Answer: _____ of its arms

Question 16: A cake is cut into 8 equal slices. I eat 4 slices. What fraction of the cake did I eat?

Answer: _____

Question 17: There are 8 children at a party. 5 children are girls. What fraction are girls?

Answer: _____ are girls

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Question 18: I have 16 pencils. I give away one eighth. How many pencils did I give away?

Answer: _____ pencils

Question 19: A ribbon is 8 centimetres long. I cut off one eighth. How long is the piece I cut off?

Answer: _____ centimetre(s)

Question 20: Complete: If I eat 3 eighths of a pizza and my friend eats 5 eighths, we have eaten the _____ pizza.

★ ★ **Fraction Problem Champion!**

What's a fraction's favorite subject at school? PIECE studies!

Answer Key
Worksheet 30: Collections & Sharing

Section 1: Eighth of a Group

1. Circle **1 apple** (one eighth of 8 is 1)

2. Circle **2 stars** (one eighth of 16 is 2)

3. **1 cookie** (one eighth of 8 is 1)

4. **3 balloons** (

$$24 \div 8 = 3$$

)

5. Circle **1 dot** (one eighth of 8 is 1)

6. **4 marbles** (

$$32 \div 8 = 4$$

)

Section 2: Sharing & Comparing

7. **1 slice each** (

$$8 \div 8 = 1$$

, each person gets one eighth)

8. **SMALLER** (one eighth is smaller than one quarter)

9. **One eighth, One quarter, One half** (from smallest to largest)

10. **One half is bigger** (one half = 4 eighths, which is bigger than 3 eighths)

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11. **Two eighths** or

$$\frac{2}{8}$$

(2 out of 8 squares)

12. **TRUE** (

$$\frac{4}{8} = \frac{1}{2}$$

)

Section 3: Word Problems Challenge

13. **One eighth** or

$$\frac{1}{8}$$

of its legs (1 out of 8 legs)

14. **3 eighths** or

$$\frac{3}{8}$$

(

$$1 + 2 = 3$$

eighths)

15. **Three eighths** or

$$\frac{3}{8}$$

of its arms (3 out of 8 arms)

16. **Four eighths** or

$$\frac{4}{8}$$

or **one half** (4 out of 8 slices)

17. **Five eighths** or

$$\frac{5}{8}$$

are girls (5 out of 8 children)

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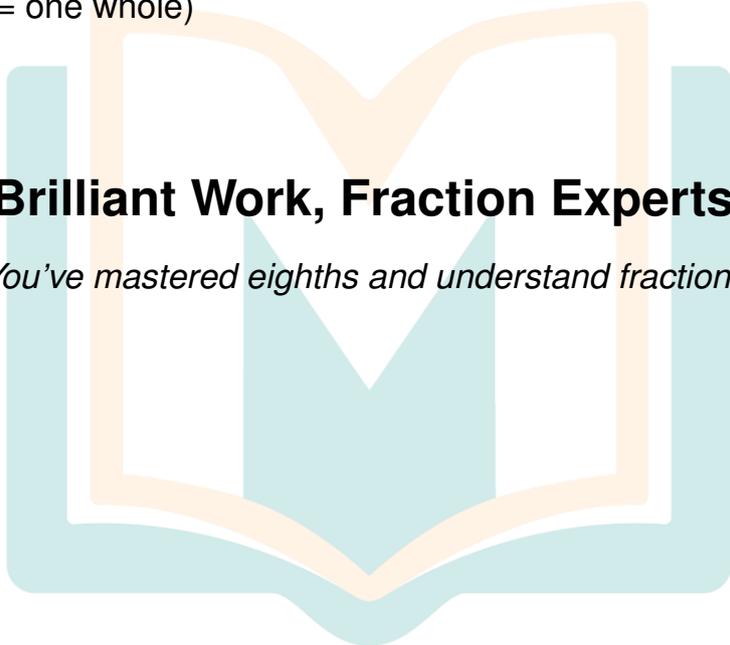18. **2 pencils** (one eighth of 16 is

$$16 \div 8 = 2$$

)

19. **1 centimetre** (one eighth of 8 cm is 1 cm)

20. **whole** pizza (

$$3 + 5 = 8$$

eighths = one whole)

Brilliant Work, Fraction Experts!

You've mastered eighths and understand fractions!

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