Worksheet 13

Year 3 Mathematics — Australian Curriculum v9.0
Subtopic: Represent Unit Fractions and Multiples
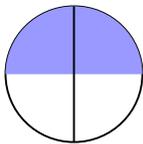
Name: _____   **Date:** _____

Score: _____ / 30

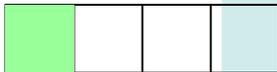## Section 1: Fluency — Naming Unit Fractions (Questions 1–10)

Instructions: Look at each shape. Write the fraction that is shaded.
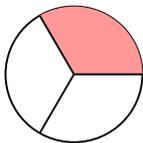
Question 1: What fraction is shaded?

Answer: _____

Question 2: What fraction is shaded?

Answer: _____

Question 3: What fraction is shaded?

Answer: _____

Question 4: What fraction is shaded?

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Answer: _____

Question 5: What fraction is shaded?

Answer: _____

Question 6: What fraction is shaded?

Answer: _____

Question 7: What fraction is shaded?

Answer: _____
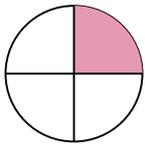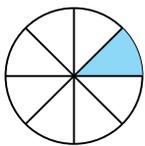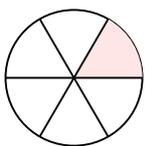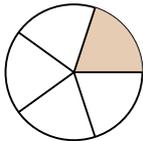
Question 8: What fraction is shaded?

Answer: _____

Question 9: What fraction is shaded?

Answer: _____

Question 10: What fraction is shaded?

Answer: _____

⚠️ **Good Job!**
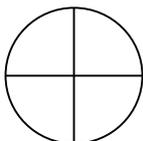What do you call a fake noodle? An impasta!

Section 2: Reasoning — Shading Unit Fractions (Questions 11–20)

Instructions: Colour in the correct fraction of each shape.

Question 11: Colour in $\frac{1}{2}$ of this shape.

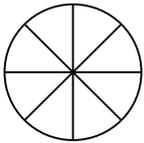**Question 12:** Colour in $\frac{1}{4}$ of this circle.

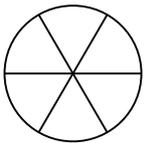**Question 13:** Colour in $\frac{1}{3}$ of this rectangle.

3

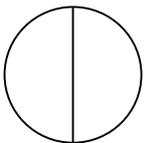Question 14: Colour in $\frac{1}{5}$ of this bar.

Question 15: Colour in $\frac{1}{8}$ of this circle.

Question 16: Shade $\frac{1}{6}$ of this pizza.

Question 17: Shade $\frac{1}{2}$ of this circle.

Question 18: Colour $\frac{1}{4}$ of this bar.

4
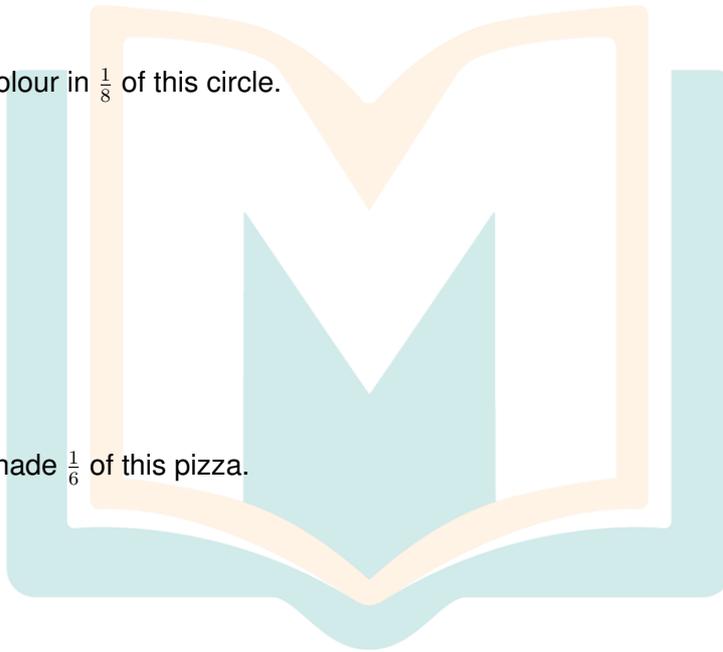
Question 19: Shade $\frac{1}{3}$ of this circle.
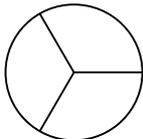
Question 20: Colour $\frac{1}{5}$ of this rectangle.
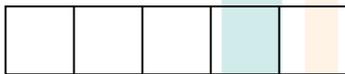
Good Job!
Why did the fraction go to the beach? To get a tan-gent!

Section 3: Challenge — Word Problems (Questions 21–30)

Instructions: Read each problem carefully and find the unit fraction.

Question 21: Tom cuts a cake into 8 equal pieces. He eats 1 piece. What fraction of the cake did he eat?

Answer: _____

Question 22: Sarah shares a chocolate bar with 3 friends (4 people total). Each person gets an equal piece. What fraction does each person get?

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Answer: _____

Question 23: A pizza is cut into 6 equal slices. Emma eats 1 slice. What fraction did she eat?

Answer: _____

Question 24: A rope is divided into 5 equal parts. One part is cut off. What fraction was cut?

Answer: _____

Question 25: A garden is divided into 3 equal sections. One section has roses. What fraction has roses?

Answer: _____

Question 26: A class of 2 equal groups (half boys, half girls). What fraction are boys?

Answer: _____

Question 27: An orange is divided into 4 equal quarters. Jake eats 1 quarter. What fraction did he eat?

Answer: _____

Question 28: A sheet of stickers has 10 equal rows. One row is used. What fraction is used?

Answer: _____

Question 29: A sandwich is cut in half. One half is eaten. What fraction is eaten?

Answer: _____

Question 30: A cake is cut into 12 equal pieces. One piece is saved for later. What fraction is saved?

Answer: _____

Good Job!
What's a math teacher's favorite dessert? Pi!

Excellent Work! You've completed Worksheet 13!

Answer Key — Worksheet 13

Year 3 Mathematics

Section 1: Fluency

1. $\frac{1}{2}$
2. $\frac{1}{4}$
3. $\frac{1}{3}$
4. $\frac{1}{5}$
5. $\frac{1}{4}$
6. $\frac{1}{8}$
7. $\frac{1}{3}$
8. $\frac{1}{6}$
9. $\frac{1}{2}$
10. $\frac{1}{5}$

Section 2: Reasoning

11–20.   Check student shading (one part shaded correctly)
11. One half of rectangle shaded
12. One quarter of circle shaded
13. One third of rectangle shaded
14. One fifth of bar shaded
15. One eighth of circle shaded
16. One sixth of circle shaded
17. One half of circle shaded
18. One quarter of bar shaded
19. One third of circle shaded
20. One fifth of rectangle shaded

Section 3: Challenge

21. $\frac{1}{8}$
22. $\frac{1}{4}$
23. $\frac{1}{6}$
24. $\frac{1}{5}$
25. $\frac{1}{3}$

26. $\frac{1}{2}$
27. $\frac{1}{4}$
28. $\frac{1}{10}$
29. $\frac{1}{2}$
30. $\frac{1}{12}$
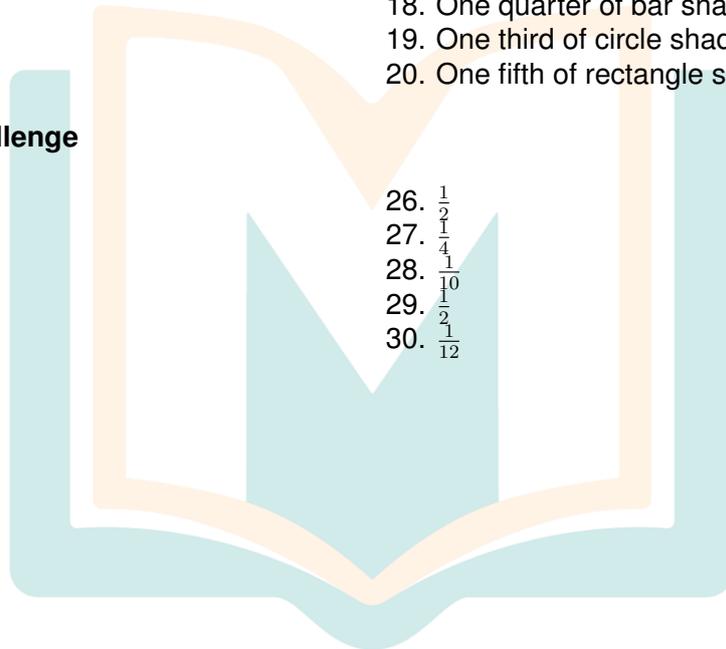
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Worksheet 14

Year 3 Mathematics — Australian Curriculum v9.0

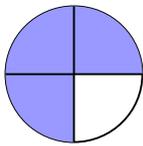Subtopic: Represent Unit Fractions and Multiples

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Score: _____ / 30

Section 1: Fluency — Writing Non-Unit Fractions (Questions 1–10)
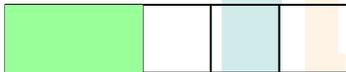
Instructions: Write the fraction for the shaded part.

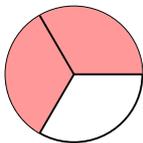**Question 1:** What fraction is shaded?

Answer: _____

Question 2: What fraction is shaded?

Answer: _____

Question 3: What fraction is shaded?

Answer: _____

Question 4: What fraction is shaded?

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Answer: _____

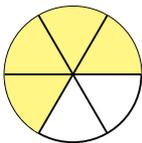**Question 5:** What fraction is shaded?

Answer: _____

Question 6: What fraction is shaded?

Answer: _____

Question 7: What fraction is shaded?
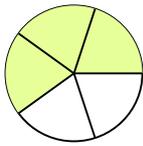

Answer: _____

Question 8: What fraction is shaded?

Answer: _____

Question 9: What fraction is shaded?

Answer: _____

Question 10: What fraction is shaded?

Answer: _____

> **Good Job!**
>
> Why was the fraction worried about marrying the decimal? Because it would have to convert!

Section 2: Reasoning — Number Lines (Questions 11–20)

Instructions: Mark and label the fractions on each number line.

Question 11: Label $\frac{1}{4}$, $\frac{2}{4}$, and $\frac{3}{4}$ on the number line.

0   1
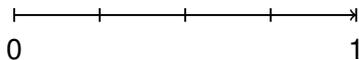
Question 12: Label $\frac{1}{3}$ and $\frac{2}{3}$ on the number line.

0   1

Question 13: Mark $\frac{2}{5}$ on the number line.

11

```
├───┼───┼───┼───┼───┤
0               1
```
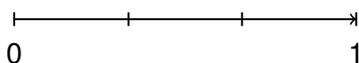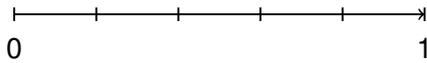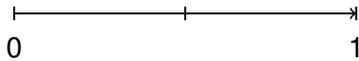
Question 14: Label $\frac{1}{2}$ on the number line.

```
├───────┼───────┤
0               1
```

Question 15: Mark $\frac{3}{5}$ and $\frac{4}{5}$ on the number line.

```
├───┼───┼───┼───┤
0               1
```

Question 16: What fraction is marked by the arrow?

```
        ↓
├───┼───┼───┤
0           1
```

Answer: _____

Question 17: What fraction is marked?

```
            ↓
├───┼───┼───┤
0           1
```
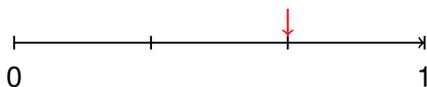
Answer: _____

Question 18: Mark $\frac{2}{8}$ and $\frac{6}{8}$ on the number line.

```
├──┼──┼──┼──┼──┼──┼──┼──┤
0                       1
```
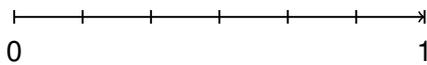
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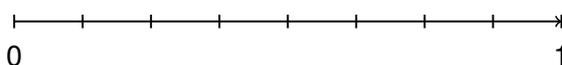
Question 19: What fraction is exactly halfway between 0 and 1?

Answer: _____

Question 20: Label $\frac{5}{6}$ on the number line.

0   1

🍪 **Good Job!**

Why did the cookie go to the doctor? It felt crumbly!

Section 3: Challenge — Comparing & Logic (Questions 21–30)

Instructions: Compare fractions and solve logic problems.

Question 21: Which is bigger? $\frac{1}{2}$ of a pizza or $\frac{2}{4}$ of the same pizza? Draw both to check.

Answer: _____

Question 22: Circle the larger fraction: $\frac{2}{3}$ or $\frac{1}{3}$

Answer: _____

Question 23: Which is smaller? $\frac{3}{5}$ or $\frac{4}{5}$

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Answer: _____

Question 24: If you eat $\frac{2}{8}$ of a cake, and your friend eats $\frac{3}{8}$, who ate more?

Answer: _____

Question 25: Is $\frac{3}{4}$ more than $\frac{1}{2}$? Use a diagram to show.

Answer: _____

Question 26: Order from smallest to largest: $\frac{1}{4}$, $\frac{3}{4}$, $\frac{2}{4}$

Answer: _____

Question 27: Which fraction is equal to $\frac{1}{2}$? Circle it: $\frac{2}{4}$, $\frac{1}{3}$, $\frac{2}{5}$

Answer: _____

Question 28: Sarah ate $\frac{2}{6}$ of a chocolate bar. Tom ate $\frac{3}{6}$. How much did they eat together?

Answer: _____

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Question 29: If a whole pizza is 1, and you eat $\frac{3}{8}$, how much is left?

Answer: _____

Question 30: True or False: $\frac{4}{5}$ is less than $\frac{2}{5}$

Answer: _____

Good Job!

What do you call a number that can't sit still? A roamin' numeral!

Fantastic! You've completed Worksheet 14!

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Answer Key — Worksheet 14
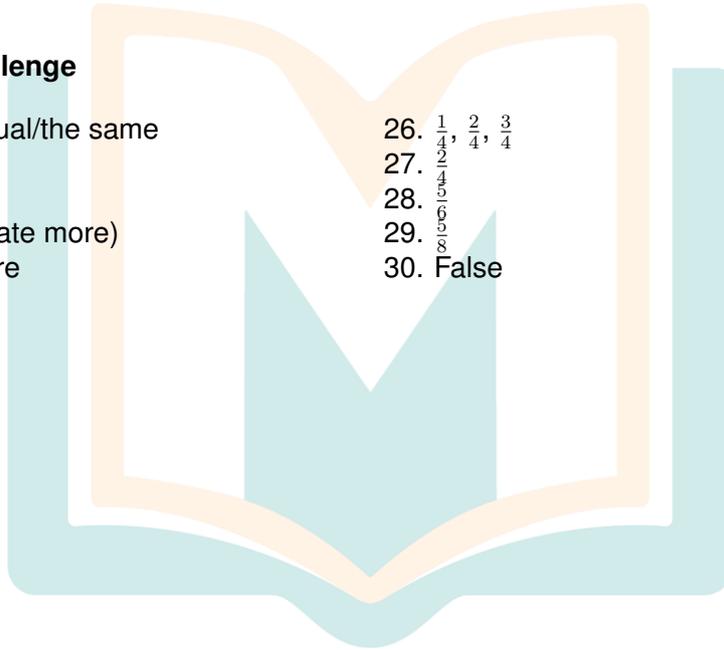
Year 3 Mathematics

Section 1: Fluency

1. $\frac{3}{4}$
2. $\frac{2}{5}$
3. $\frac{2}{3}$
4. $\frac{4}{6}$ (or $\frac{2}{3}$)
5. $\frac{5}{8}$
6. $\frac{3}{4}$
7. $\frac{4}{6}$ (or $\frac{2}{3}$)
8. $\frac{2}{3}$
9. $\frac{3}{5}$
10. $\frac{6}{8}$ (or $\frac{3}{4}$)

Section 2: Reasoning

11–15, 18, 20. Check student labeling
16. $\frac{2}{4}$ (or $\frac{1}{2}$)
17. $\frac{2}{3}$
19. $\frac{1}{2}$ (or $\frac{2}{4}$, etc.)

Section 3: Challenge

21. They are equal/the same
22. $\frac{2}{3}$
23. $\frac{3}{5}$
24. Your friend (ate more)
25. Yes, $\frac{3}{4}$ is more

26. $\frac{1}{4}$, $\frac{2}{4}$, $\frac{3}{4}$
27. $\frac{2}{4}$
28. $\frac{5}{6}$
29. $\frac{5}{8}$
30. False

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