Merit Tutoring

WORKSHEET 21

Adding Fractions

Year 5 Mathematics — Fractions Strand

Australian Curriculum v9.0 — AC9M5N05

Name: _____ **Date:** _____

Section 1: Fluency - Same Denominators

Question 1: Calculate $\frac{3}{8} + \frac{2}{8}$

Answer: _____

Question 2: What is $\frac{4}{10} + \frac{5}{10}$?

Answer: _____

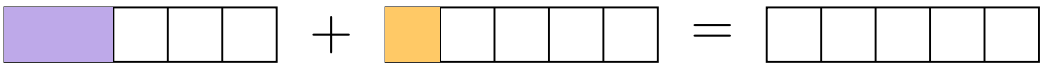
Question 3: Add: $\frac{2}{7} + \frac{3}{7}$

Answer: _____

Question 4: Calculate $\frac{1}{6} + \frac{4}{6}$

Answer: _____

Question 5: Look at the fraction bars. What addition does this show?



$\frac{2}{5}$ $\frac{1}{5}$?

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Answer: _____

Question 6: Add $\frac{3}{12} + \frac{5}{12}$

Answer: _____

Question 7: What is $\frac{2}{9} + \frac{4}{9}$?

Answer: _____

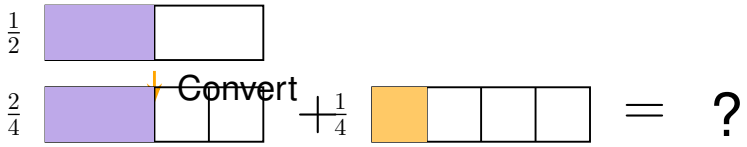
Plus Python Says:

"You're an Addition Ace!"

Joke Time: Why was the fraction so good at adding? Because it was always looking for common ground!

Section 2: Reasoning - Related Denominators

Question 8: Look at the diagram. Convert $\frac{1}{2}$ into fourths and find $\frac{1}{2} + \frac{1}{4}$.



Answer: _____

Question 9: Solve $\frac{1}{3} + \frac{2}{6}$. (Hint: Convert $\frac{1}{3}$ to sixths)

$$\frac{1}{3} \xrightarrow[\times 2]{\times 2} \frac{2}{6}$$

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Answer: _____

Question 10: Add $\frac{1}{4} + \frac{1}{8}$. Convert to eighths first.

Answer: _____

Question 11: Calculate $\frac{2}{5} + \frac{1}{10}$

Answer: _____

Question 12: What is $\frac{1}{2} + \frac{1}{6}$? (Convert both to sixths)

Answer: _____

Question 13: Add $\frac{3}{4} + \frac{1}{8}$

Answer: _____

Question 14: Solve $\frac{1}{3} + \frac{1}{6} + \frac{1}{6}$

Answer: _____

Equivalent Eagle Says:

"You're Soaring with Equivalents!"

Joke Time: Why did the fraction need glasses?
To improve its division!

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Section 3: Challenge - Multi-step Addition

Question 15: A recipe uses $\frac{1}{8}$ cup of sugar and $\frac{3}{8}$ cup of flour. What is the total fraction of dry ingredients used?

Answer: _____

Question 16: Sarah walked $\frac{2}{5}$ of a kilometre to school and $\frac{1}{5}$ of a kilometre to the library. What fraction of a kilometre did she walk in total?

Answer: _____

Question 17: Add three fractions: $\frac{1}{6} + \frac{2}{6} + \frac{1}{6}$

Answer: _____

Question 18: A pizza is cut into 12 slices. Tom ate $\frac{3}{12}$ and Jerry ate $\frac{5}{12}$. What fraction of the pizza was eaten altogether?

Answer: _____

Question 19: Calculate $\frac{1}{4} + \frac{1}{4} + \frac{1}{8}$. (Hint: Convert to eighths)

Answer: _____

Question 20: A painter used $\frac{2}{10}$ of a tin of blue paint and $\frac{3}{10}$ of a tin of red paint. What fraction of paint was used? Simplify your answer.

Answer: _____

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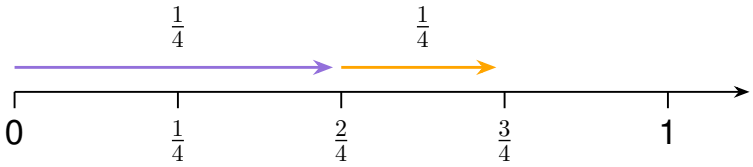
Question 21: If $\frac{1}{3} + \frac{1}{6} = \frac{x}{6}$, what is the value of x?

Answer: _____

Question 22: Look at the number line. What addition is shown?



Answer: _____

Challenge Cheetah Says:

"You're Racing Through Fractions!"

Joke Time: What do you call a fraction that's also a superhero?
A super-numerator!

Excellent work! Check your answers on the next page.

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WORKSHEET 21
ANSWER KEY

Section 1: Fluency - Same Denominators

1. $\frac{5}{8}$
2. $\frac{9}{10}$
3. $\frac{5}{7}$
4. $\frac{5}{6}$
5. $\frac{2}{5} + \frac{1}{5} = \frac{3}{5}$
6. $\frac{8}{12}$ or $\frac{2}{3}$ (simplified)
7. $\frac{6}{9}$ or $\frac{2}{3}$ (simplified)

Section 2: Reasoning - Related Denominators

8. $\frac{2}{4} + \frac{1}{4} = \frac{3}{4}$
9. $\frac{2}{6} + \frac{2}{6} = \frac{4}{6}$ or $\frac{2}{3}$
10. $\frac{2}{8} + \frac{1}{8} = \frac{3}{8}$
11. $\frac{4}{10} + \frac{1}{10} = \frac{5}{10}$ or $\frac{1}{2}$
12. $\frac{3}{6} + \frac{1}{6} = \frac{4}{6}$ or $\frac{2}{3}$
13. $\frac{6}{8} + \frac{1}{8} = \frac{7}{8}$
14. $\frac{2}{6} + \frac{1}{6} + \frac{1}{6} = \frac{4}{6}$ or $\frac{2}{3}$

Section 3: Challenge - Multi-step Addition

15. $\frac{4}{8}$ or $\frac{1}{2}$
16. $\frac{3}{5}$ of a kilometre
17. $\frac{4}{6}$ or $\frac{2}{3}$
18. $\frac{8}{12}$ or $\frac{2}{3}$
19. $\frac{5}{8}$ (because $\frac{1}{4} = \frac{2}{8}$, so $\frac{2}{8} + \frac{2}{8} + \frac{1}{8} = \frac{5}{8}$)
20. $\frac{5}{10}$ or $\frac{1}{2}$
21. $x = 3$ (because $\frac{1}{3} = \frac{2}{6}$, so $\frac{2}{6} + \frac{1}{6} = \frac{3}{6}$)
22. $\frac{1}{4} + \frac{1}{4} = \frac{2}{4}$ or $\frac{1}{2}$

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WORKSHEET 22

Subtracting Fractions

Year 5 Mathematics — Fractions Strand

Australian Curriculum v9.0 — AC9M5N05

Name: _____ **Date:** _____

Section 1: Fluency - Same Denominators

Question 1: Calculate $\frac{7}{9} - \frac{4}{9}$

Answer: _____

Question 2: What is $\frac{11}{12} - \frac{5}{12}$?

Answer: _____

Question 3: Subtract: $\frac{5}{8} - \frac{2}{8}$

Answer: _____

Question 4: Calculate $\frac{9}{10} - \frac{3}{10}$

Answer: _____

Question 5: Look at the fraction bar. What subtraction does this show?

$\frac{5}{6} - \frac{2}{6} = ?$

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Answer: _____

Question 6: Subtract $\frac{8}{11} - \frac{3}{11}$

Answer: _____

Question 7: What is $\frac{6}{7} - \frac{2}{7}$?

Answer: _____

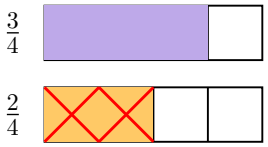
Minus Mouse Says:

"You're a Subtraction Superstar!"

Joke Time: Why did the fraction go to the gym?
To work on its take-aways!

Section 2: Reasoning - Related Denominators

Question 8: Solve $\frac{3}{4} - \frac{1}{2}$. Show your working by changing to common denominators.



Answer: _____

Question 9: Calculate $\frac{5}{6} - \frac{1}{3}$. (Convert $\frac{1}{3}$ to sixths)

Answer: _____

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Question 10: Subtract $\frac{7}{8} - \frac{1}{4}$

Answer: _____

Question 11: What is $\frac{2}{3} - \frac{1}{6}$?

Answer: _____

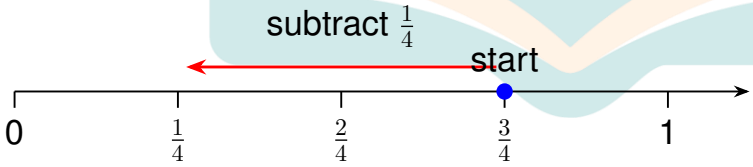
Question 12: Calculate $\frac{9}{10} - \frac{2}{5}$

Answer: _____

Question 13: Subtract $\frac{5}{8} - \frac{1}{4}$

Answer: _____

Question 14: Look at the number line. What subtraction is shown?



Answer: _____

Difference Dog Says:

"You're Finding the Difference!"

Joke Time: What's a fraction's favorite game?
Hide and subtract!

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Section 3: Challenge - Word Problems

Question 15: A pizza was cut into 8 slices. If $\frac{5}{8}$ was eaten, what fraction of the pizza is left?

Answer: _____

Question 16: You have 1 whole chocolate bar. You give $\frac{1}{4}$ to a friend. How much is left? (Hint: 1 whole = $\frac{4}{4}$)

Answer: _____

Question 17: A bottle was $\frac{7}{10}$ full of juice. After drinking some, it was $\frac{3}{10}$ full. What fraction was drunk?

Answer: _____

Question 18: Tom had $\frac{5}{6}$ of a cake. He ate $\frac{1}{3}$ of the cake. What fraction is left?

Answer: _____

Question 19: A runner completed $\frac{3}{4}$ of a race. What fraction of the race is still left to run?

Answer: _____

Question 20: Sarah had $\frac{11}{12}$ of a pizza. She gave $\frac{1}{4}$ of the pizza to her brother. How much pizza does Sarah have now?

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Answer: _____

Question 21: If you start with 1 whole pie ($\frac{6}{6}$) and eat $\frac{2}{3}$ of it, what fraction remains?

Answer: _____

Question 22: A tank was $\frac{9}{10}$ full of water. After using some water, it was $\frac{1}{2}$ full. What fraction of the tank was used?

Answer: _____

Problem-Solving Panda Says:

"You're a Word Problem Wizard!"

Joke Time: Why did the fraction break up with the decimal?
Because it felt like there was something between them!

Outstanding work! Check your answers on the next page.

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WORKSHEET 22
ANSWER KEY

Section 1: Fluency - Same Denominators

1. $\frac{3}{9}$ or $\frac{1}{3}$ (simplified)
2. $\frac{6}{12}$ or $\frac{1}{2}$ (simplified)
3. $\frac{3}{8}$
4. $\frac{6}{10}$ or $\frac{3}{5}$ (simplified)
5. $\frac{3}{6}$ or $\frac{1}{2}$
6. $\frac{5}{11}$
7. $\frac{4}{7}$

Section 2: Reasoning - Related Denominators

8. $\frac{3}{4} - \frac{2}{4} = \frac{1}{4}$
9. $\frac{5}{6} - \frac{2}{6} = \frac{3}{6}$ or $\frac{1}{2}$
10. $\frac{7}{8} - \frac{2}{8} = \frac{5}{8}$
11. $\frac{4}{6} - \frac{1}{6} = \frac{3}{6}$ or $\frac{1}{2}$
12. $\frac{9}{10} - \frac{4}{10} = \frac{5}{10}$ or $\frac{1}{2}$
13. $\frac{5}{8} - \frac{2}{8} = \frac{3}{8}$
14. $\frac{3}{4} - \frac{1}{4} = \frac{2}{4}$ or $\frac{1}{2}$

Section 3: Challenge - Word Problems

15. $\frac{3}{8}$ (because $\frac{8}{8} - \frac{5}{8} = \frac{3}{8}$)
16. $\frac{3}{4}$ (because $\frac{4}{4} - \frac{1}{4} = \frac{3}{4}$)
17. $\frac{4}{10}$ or $\frac{2}{5}$
18. $\frac{3}{6}$ or $\frac{1}{2}$ (because $\frac{5}{6} - \frac{2}{6} = \frac{3}{6}$)
19. $\frac{1}{4}$ (because $\frac{4}{4} - \frac{3}{4} = \frac{1}{4}$)
20. $\frac{8}{12}$ or $\frac{2}{3}$ (because $\frac{11}{12} - \frac{3}{12} = \frac{8}{12}$)
21. $\frac{2}{6}$ or $\frac{1}{3}$ (because $\frac{6}{6} - \frac{4}{6} = \frac{2}{6}$)
22. $\frac{4}{10}$ or $\frac{2}{5}$ (because $\frac{9}{10} - \frac{5}{10} = \frac{4}{10}$)

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Fantastic!

You've mastered Adding & Subtracting Fractions!
Keep up the brilliant work in Year 5 Maths!

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