KIDSLEARN MATH · PRACTICE ASSIGNMENT

Fractions Practice

Name: Date: Score: / 50

Give every fraction answer in its simplest form. Improper fractions such as 7/4 are fine unless a mixed number is asked for. Show your working. Answers are at the end.

Part A — Warm-up

1. Write $\frac{9}{72}$ in its simplest form.

2. Write $\frac{24}{40}$ in its simplest form.

3. Simplify $\frac{20}{22}$.

4. Reduce $\frac{25}{45}$ to lowest terms.

5. Find the missing number: $\frac{5}{8} = \frac{20}{\square}$.

6. Find the missing number: $\frac{1}{6} = \frac{3}{\square}$.

7. Find the missing number: $\frac{3}{7} = \frac{15}{\square}$.

8. Find the missing number: $\frac{2}{9} = \frac{16}{\square}$.

9. Write $\frac{11}{3}$ as a mixed number.

10. Write $\frac{7}{6}$ as a mixed number.

11. Write $4\frac{4}{5}$ as an improper fraction.

12. Write $\frac{37}{8}$ as a mixed number.

13. Write $\frac{11}{20}$ as a decimal.

14. Write $\frac{3}{5}$ as a decimal.

15. Write $\frac{6}{7}$ as a decimal, rounded to 2 decimal places.

Part B — Core practice

16. Work out $\frac{1}{5} + \frac{5}{9}$.

17. Work out $\frac{1}{11} + \frac{1}{4}$.

18. Work out $\frac{6}{7} + \frac{5}{8}$.

19. Work out $\frac{2}{3} + \frac{1}{5}$.

20. Add: $\frac{1}{4} + \frac{3}{5}$.

21. Find the difference $\frac{5}{6} - \frac{4}{5}$.

22. Subtract: $\frac{1}{3} - \frac{1}{8}$.

23. Subtract: $\frac{11}{12} - \frac{5}{6}$.

24. Find the difference $\frac{3}{4} - \frac{4}{9}$.

25. Work out $\frac{9}{10} - \frac{1}{2}$.

26. Multiply: $\frac{1}{2} \times \frac{1}{2}$.

27. Work out $\frac{7}{10} \times \frac{1}{2}$.

28. Multiply: $\frac{4}{11} \times \frac{3}{4}$.

29. Work out $10 \times \frac{5}{8}$.

30. Work out $\frac{1}{6} \times \frac{6}{11}$.

31. Work out $3 \div \frac{3}{4}$.

32. Work out $\frac{1}{4} \div \frac{1}{3}$.

33. Divide: $\frac{7}{10} \div \frac{1}{6}$.

34. Divide: $\frac{1}{11} \div \frac{4}{9}$.

35. Work out $\frac{1}{5} \div 4$.

36. Which fraction is the largest: $\frac{1}{6}$, $\frac{7}{11}$, $\frac{3}{7}$ or $\frac{10}{11}$?

(A) $\frac{7}{11}$ (B) $\frac{10}{11}$ (C) $\frac{1}{6}$ (D) $\frac{3}{7}$

37. Which symbol goes in the box? $\frac{1}{3} \square \frac{2}{6}$

(A) $<$ (B) $>$ (C) $=$

38. Which symbol goes in the box? $\frac{3}{7} \square \frac{2}{5}$

(A) $<$ (B) $>$ (C) $=$

Part C — Challenge

39. Work out $4\frac{1}{2} + 3\frac{2}{7}$. Give your answer as a mixed number.

40. Work out $4\frac{1}{2} - 1\frac{2}{3}$. Give your answer as a mixed number.

41. Work out $1\frac{1}{2} + 3\frac{3}{4}$. Give your answer as a mixed number.

42. Work out $3\frac{1}{4} \times \frac{2}{5}$. Give your answer as a mixed number if it is more than 1.

43. Work out $1\frac{5}{6} \div \frac{7}{8}$. Give your answer as a mixed number if it is more than 1.

44. Work out $1\frac{3}{4} \times \frac{1}{6}$. Give your answer as a mixed number if it is more than 1.

45. Work out $\frac{3}{5} - \frac{1}{4} \times \frac{2}{3}$.

46. Work out $\frac{3}{4} - \frac{1}{4} \times \frac{5}{7}$.

47. Work out $\frac{4}{5} - \frac{1}{2} \times \frac{3}{4}$.

48. Zara walks $3\frac{2}{3}$ km to the park and then $1\frac{1}{5}$ km to the shops. How far is that altogether?

49. A recipe needs $\frac{1}{4}$ cup of sugar. Sofia makes $1\frac{1}{3}$ times the recipe. How many cups of sugar are needed?

50. A water tank is $\frac{2}{3}$ full. Noah uses $\frac{3}{4}$ of the water in it. What fraction of the tank is full now?

Answer Key — Fractions Practice

1. $\frac{1}{8}$
The GCF of 9 and 72 is 9. Divide both by 9: $\frac{9}{72} = \frac{1}{8}$.

2. $\frac{3}{5}$
The GCF of 24 and 40 is 8. Divide both by 8: $\frac{24}{40} = \frac{3}{5}$.

3. $\frac{10}{11}$
The GCF of 20 and 22 is 2. Divide both by 2: $\frac{20}{22} = \frac{10}{11}$.

4. $\frac{5}{9}$
The GCF of 25 and 45 is 5. Divide both by 5: $\frac{25}{45} = \frac{5}{9}$.

5. 32
$5 \times 4 = 20$, so multiply the bottom by 4 too: $8 \times 4 = 32$.

6. 18
$1 \times 3 = 3$, so multiply the bottom by 3 too: $6 \times 3 = 18$.

7. 35
$3 \times 5 = 15$, so multiply the bottom by 5 too: $7 \times 5 = 35$.

8. 72
$2 \times 8 = 16$, so multiply the bottom by 8 too: $9 \times 8 = 72$.

9. $3\frac{2}{3}$
$11 \div 3 = 3$ remainder 2, so $\frac{11}{3} = 3\frac{2}{3}$.

10. $1\frac{1}{6}$
$7 \div 6 = 1$ remainder 1, so $\frac{7}{6} = 1\frac{1}{6}$.

11. $\frac{24}{5}$
$4 \times 5 + 4 = 24$, so $4\frac{4}{5} = \frac{24}{5}$.

12. $4\frac{5}{8}$
$37 \div 8 = 4$ remainder 5, so $\frac{37}{8} = 4\frac{5}{8}$.

13. 0.55
$\frac{11}{20} = \frac{55}{100} = 0.55$.

14. 0.6
$\frac{3}{5} = \frac{60}{100} = 0.6$.

15. 0.86
$6 \div 7 = 0.8571\ldots \approx 0.86$.

16. $\frac{34}{45}$
Common denominator 45: $\frac{9}{45} + \frac{25}{45} = \frac{34}{45}$.

17. $\frac{15}{44}$
Common denominator 44: $\frac{4}{44} + \frac{11}{44} = \frac{15}{44}$.

18. $\frac{83}{56}$
Common denominator 56: $\frac{48}{56} + \frac{35}{56} = \frac{83}{56}$.

19. $\frac{13}{15}$
Common denominator 15: $\frac{10}{15} + \frac{3}{15} = \frac{13}{15}$.

20. $\frac{17}{20}$
Common denominator 20: $\frac{5}{20} + \frac{12}{20} = \frac{17}{20}$.

21. $\frac{1}{30}$
Common denominator 30: $\frac{25}{30} - \frac{24}{30} = \frac{1}{30}$.

22. $\frac{5}{24}$
Common denominator 24: $\frac{8}{24} - \frac{3}{24} = \frac{5}{24}$.

23. $\frac{1}{12}$
Common denominator 12: $\frac{11}{12} - \frac{10}{12} = \frac{1}{12}$.

24. $\frac{11}{36}$
Common denominator 36: $\frac{27}{36} - \frac{16}{36} = \frac{11}{36}$.

25. $\frac{2}{5}$
Common denominator 10: $\frac{9}{10} - \frac{5}{10} = \frac{4}{10} = \frac{2}{5}$.

26. $\frac{1}{4}$
Multiply the tops and the bottoms: $\frac{1 \times 1}{2 \times 2} = \frac{1}{4}$.

27. $\frac{7}{20}$
Multiply the tops and the bottoms: $\frac{7 \times 1}{10 \times 2} = \frac{7}{20}$.

28. $\frac{3}{11}$
Multiply the tops and the bottoms: $\frac{4 \times 3}{11 \times 4} = \frac{12}{44} = \frac{3}{11}$.

29. $\frac{25}{4}$
$10 \times \frac{5}{8} = \frac{50}{8} = \frac{25}{4}$.

30. $\frac{1}{11}$
Multiply the tops and the bottoms: $\frac{1 \times 6}{6 \times 11} = \frac{6}{66} = \frac{1}{11}$.

31. 4
Flip the divisor and multiply: $3 \times \frac{4}{3} = \frac{12}{3} = 4$.

32. $\frac{3}{4}$
Keep, change, flip: $\frac{1}{4} \times \frac{3}{1} = \frac{3}{4}$.

33. $\frac{21}{5}$
Keep, change, flip: $\frac{7}{10} \times \frac{6}{1} = \frac{42}{10} = \frac{21}{5}$.

34. $\frac{9}{44}$
Keep, change, flip: $\frac{1}{11} \times \frac{9}{4} = \frac{9}{44}$.

35. $\frac{1}{20}$
Dividing by 4 is multiplying by $\frac{1}{4}$: $\frac{1}{5} \times \frac{1}{4} = \frac{1}{20}$.

36. **(B)** $\frac{10}{11}$
Over the common denominator 462, the numerators are 77, 294, 198, 420; the largest is $\frac{10}{11}$.

37. **(C)** $=$
Cross-multiply: 1×6 and 2×3 are both 6, so the fractions are equal: $\frac{1}{3} = \frac{2}{6}$.

38. **(B)** $>$
Cross-multiply: $3 \times 5 = 15$ and $2 \times 7 = 14$. Since $15 > 14$, $\frac{3}{7} > \frac{2}{5}$.

39. $7\frac{11}{14}$
As improper fractions:
$\frac{9}{2} + \frac{23}{7} = \frac{63}{14} + \frac{46}{14} = \frac{109}{14} = 7\frac{11}{14}$.

40. $2\frac{5}{6}$
As improper fractions:
$\frac{9}{2} - \frac{5}{3} = \frac{27}{6} - \frac{10}{6} = \frac{17}{6} = 2\frac{5}{6}$.

41. $5\frac{1}{4}$
As improper fractions:
$\frac{3}{2} + \frac{15}{4} = \frac{6}{4} + \frac{15}{4} = \frac{21}{4} = 5\frac{1}{4}$.

42. $1\frac{3}{10}$
$\frac{13}{4} \times \frac{2}{5} = \frac{26}{20} = \frac{13}{10} = 1\frac{3}{10}$.

43. $2\frac{2}{21}$
$\frac{11}{6} \div \frac{7}{8} = \frac{11}{6} \times \frac{8}{7} = \frac{88}{42} = \frac{44}{21} = 2\frac{2}{21}$.

44. $\frac{7}{24}$
$\frac{7}{4} \times \frac{1}{6} = \frac{7}{24}$.

45. $\frac{13}{30}$
Multiply first: $\frac{1}{4} \times \frac{2}{3} = \frac{1}{6}$. Then $\frac{3}{5} - \frac{1}{6} = \frac{13}{30}$.

46. $\frac{4}{7}$
Multiply first: $\frac{1}{4} \times \frac{5}{7} = \frac{5}{28}$. Then $\frac{3}{4} - \frac{5}{28} = \frac{4}{7}$.

47. $\frac{17}{40}$
Multiply first: $\frac{1}{2} \times \frac{3}{4} = \frac{3}{8}$. Then $\frac{4}{5} - \frac{3}{8} = \frac{17}{40}$.

48. $4\frac{13}{15}$ **km**
Whole numbers: $3 + 1 = 4$. Fractions:
$\frac{2}{3} + \frac{1}{5} = \frac{13}{15}$. Total $4\frac{13}{15}$ km.

49. $\frac{1}{3}$ **cups**
$\frac{1}{4} \times \frac{4}{3} = \frac{4}{12} = \frac{1}{3}$ cups.

50. $\frac{1}{6}$
$\frac{1}{4}$ of the water is left: $\frac{1}{4} \times \frac{2}{3} = \frac{2}{12} = \frac{1}{6}$ of the tank.