KIDSLEARN MATH · PRACTICE ASSIGNMENT

Fraction · % · Decimal

Name: Date: Score: / 50

Give fractions in simplest form. Round percentages to 2 decimal places and decimals to 3 decimal places only when a question asks you to round. Answers are at the end.

Part A — Warm-up

1. What percent is $\frac{7}{20}$?

2. Write $\frac{2}{25}$ as a percentage.

3. Convert $\frac{3}{20}$ to a percent.

4. Write $\frac{1}{2}$ as a percentage.

5. Convert $\frac{7}{20}$ to a decimal.

6. Write $\frac{7}{8}$ as a decimal.

7. Write $\frac{1}{8}$ as a decimal.

8. Convert $\frac{1}{2}$ to a decimal.

9. Write 0.28 as a percentage.

10. Write 0.95 as a percentage.

11. Write 72% as a decimal.

12. Write 120% as a decimal.

13. Write 45% as a fraction in its simplest form.

14. Write 5% as a fraction in its simplest form.

15. Convert 10% to a fraction in lowest terms.

Part B — Core practice

16. Convert 0.216 to a fraction in lowest terms.

17. Write 0.15 as a fraction in its simplest form.

18. Write 2.35 as a fraction in its simplest form. You may give a mixed number.

19. Convert 2.52 to a fraction in lowest terms. You may give a mixed number.

20. Write 37.5% as a fraction in its simplest form.

21. Write 17.5% as a fraction in its simplest form.

22. Write 12.5% as a fraction in its simplest form.

23. Write 81.25% as a fraction in its simplest form.

24. Write $\frac{8}{9}$ as a percentage, rounded to 2 decimal places.

25. Write $\frac{5}{6}$ as a percentage, rounded to 2 decimal places.

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

27. Write $\frac{2}{3}$ as a percentage, rounded to 2 decimal places.

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

29. Write $\frac{5}{6}$ as a decimal, rounded to 2 decimal places.

30. Write $\frac{5}{12}$ as a decimal, rounded to 3 decimal places.

31. Write $\frac{6}{7}$ as a decimal, rounded to 3 decimal places.

32. Which is the largest: $\frac{4}{7}$, 0.1, $\frac{2}{5}$ or $\frac{6}{25}$?

(A) $\frac{6}{25}$ (B) $\frac{4}{7}$ (C) $\frac{2}{5}$ (D) 0.1

33. Which is the smallest: 20%, 0.84, 95% or $\frac{4}{5}$?

(A) 0.84 (B) $\frac{4}{5}$ (C) 95% (D) 20%

34. Which is the largest: $\frac{1}{3}$, $\frac{3}{11}$, $\frac{12}{25}$ or 4%?

(A) $\frac{1}{3}$ (B) 4% (C) $\frac{3}{11}$ (D) $\frac{12}{25}$

35. Which is the smallest: $\frac{1}{2}$, 0.4, 0.84 or 4%?

(A) 4% (B) 0.4 (C) 0.84 (D) $\frac{1}{2}$

36. Which of these is **not** equal to $\frac{12}{25}$?

(A) 48% (B) $\frac{24}{50}$ (C) 0.48 (D) $\frac{13}{26}$

37. Which of these is **not** equal to $\frac{19}{20}$?

(A) 95% (B) 9.5% (C) $\frac{95}{100}$ (D) 0.95

38. Which of these is **not** equal to $\frac{13}{20}$?

(A) $\frac{52}{80}$ (B) 0.65 (C) $\frac{14}{21}$ (D) 65%

Part C — Challenge

39. Write $\frac{43}{80}$ as a percentage.

40. Write $\frac{10}{11}$ as a percentage, rounded to 2 decimal places.

41. Write $\frac{14}{15}$ as a percentage, rounded to 2 decimal places.

42. Write $3\frac{7}{10}$ as a percentage.

43. Write $1\frac{16}{25}$ as a percentage.

44. Write 2.45 as a mixed number in its simplest form.

45. Write $0.7\overline{4}$ (that is, $0.7444\ldots$) as a fraction in its simplest form.

46. Write $0.\overline{24}$ (that is, $0.2424\ldots$) as a fraction in its simplest form.

47. Write $0.\overline{78}$ (that is, $0.7878\ldots$) as a fraction in its simplest form.

48. In a class of 50 students, 19 walk to school. What percentage of the class is that?

49. A shop takes 35% off every price. What fraction of the price is taken off? Give it in simplest form.

50. Ethan has read 0.4 of a book. What fraction of the book is that, in simplest form?

Answer Key — Fraction · % · Decimal

1. 35%
   $\frac{7}{20} = \frac{35}{100}$, which is 35%.
2. 8%
   $\frac{2}{25} = \frac{8}{100}$, which is 8%.
3. 15%
   $\frac{3}{20} = \frac{15}{100}$, which is 15%.
4. 50%
   $\frac{1}{2} = \frac{50}{100}$, which is 50%.
5. 0.35
   $\frac{7}{20} = \frac{35}{100} = 0.35$.
6. 0.875
   $7 \div 8 = 0.875$.
7. 0.125
   $1 \div 8 = 0.125$.
8. 0.5
   $\frac{1}{2} = \frac{50}{100} = 0.5$.
9. 28%
   Multiply by 100 (move the point two places right): $0.28 \times 100 = 28$, so 28%.
10. 95%
    Multiply by 100 (move the point two places right): $0.95 \times 100 = 95$, so 95%.
11. 0.72
    Divide by 100 (move the point two places left): $72\% = 72 \div 100 = 0.72$.
12. 1.2
    Divide by 100 (move the point two places left): $120\% = 120 \div 100 = 1.2$.
13. $\frac{9}{20}$
    $45\% = \frac{45}{100} = \frac{9}{20}$ (divide top and bottom by 5).
14. $\frac{1}{20}$
    $5\% = \frac{5}{100} = \frac{1}{20}$ (divide top and bottom by 5).
15. $\frac{1}{10}$
    $10\% = \frac{10}{100} = \frac{1}{10}$ (divide top and bottom by 10).
16. $\frac{27}{125}$
    $0.216 = \frac{216}{1000} = \frac{27}{125}$ (divide top and bottom by 8).
17. $\frac{3}{20}$
    $0.15 = \frac{15}{100} = \frac{3}{20}$ (divide top and bottom by 5).
18. $2\frac{7}{20}$
    $2.35 = \frac{235}{100} = \frac{47}{20} = 2\frac{7}{20}$ (divide top and bottom by 5).
19. $2\frac{13}{25}$
    $2.52 = \frac{252}{100} = \frac{63}{25} = 2\frac{13}{25}$ (divide top and bottom by 4).
20. $\frac{3}{8}$
    $37.5\% = \frac{37.5}{100} = \frac{375}{1000} = \frac{3}{8}$.
21. $\frac{7}{40}$
    $17.5\% = \frac{17.5}{100} = \frac{175}{1000} = \frac{7}{40}$.
22. $\frac{1}{8}$
    $12.5\% = \frac{12.5}{100} = \frac{125}{1000} = \frac{1}{8}$.
23. $\frac{13}{16}$
    $81.25\% = \frac{81.25}{100} = \frac{8125}{10000} = \frac{13}{16}$.
24. 88.89%
    $8 \div 9 = 0.888889\ldots$, times 100 is $88.8889\ldots$, so 88.89%.
25. 83.33%
    $5 \div 6 = 0.833333\ldots$, times 100 is $83.3333\ldots$, so 83.33%.
26. 46.67%
    $7 \div 15 = 0.466667\ldots$, times 100 is $46.6667\ldots$, so 46.67%.
27. 66.67%
    $2 \div 3 = 0.666667\ldots$, times 100 is $66.6667\ldots$, so 66.67%.
28. 0.13
    $2 \div 15 = 0.13333\ldots \approx 0.13$.
29. 0.83
    $5 \div 6 = 0.83333\ldots \approx 0.83$.
30. 0.417
    $5 \div 12 = 0.41667\ldots \approx 0.417$.
31. 0.857
    $6 \div 7 = 0.85714\ldots \approx 0.857$.
32. **(B)** $\frac{4}{7}$
    As decimals: $\frac{4}{7}$ = 0.571..., 0.1 = 0.1, $\frac{2}{5}$ = 0.4, $\frac{6}{25}$ = 0.24. The largest is $\frac{4}{7}$.
33. **(D) 20%**
    As decimals: 20% = 0.2, 0.84 = 0.84, 95% = 0.95, $\frac{4}{5}$ = 0.8. The smallest is 20%.

34. **(D)** $\frac{12}{25}$
As decimals: $\frac{1}{3}$ = 0.333..., $\frac{3}{11}$ = 0.273..., $\frac{12}{25}$ = 0.48, 4% = 0.04. The largest is $\frac{12}{25}$.

35. **(A) 4%**
As decimals: $\frac{1}{2}$ = 0.5, 0.4 = 0.4, 0.84 = 0.84, 4% = 0.04. The smallest is 4%.

36. **(D)** $\frac{13}{26}$
$\frac{12}{25} = 0.48 = 48\%$, and $\frac{24}{50}$ is the same fraction (×2). So $\frac{13}{26}$ is the odd one out.

37. **(B) 9.5%**
$\frac{19}{20} = 0.95 = 95\%$, and $\frac{95}{100}$ is the same fraction (×5). So 9.5% is the odd one out.

38. **(C)** $\frac{14}{21}$
$\frac{13}{20} = 0.65 = 65\%$, and $\frac{52}{80}$ is the same fraction (×4). So $\frac{14}{21}$ is the odd one out.

39. **53.75%**
$43 \div 80 = 0.5375$, and $0.5375 \times 100 = 53.75$, so 53.75%.

40. **90.91%**
$10 \div 11 = 0.909091\ldots$, so about 90.91%.

41. **93.33%**
$14 \div 15 = 0.933333\ldots$, so about 93.33%.

42. **370%**
$3\frac{7}{10} = 3 + 0.7 = 3.7$, and $3.7 \times 100 = 370$, so 370%.

43. **164%**
$1\frac{16}{25} = 1 + 0.64 = 1.64$, and $1.64 \times 100 = 164$, so 164%.

44. $2\frac{9}{20}$
$2.45 = 2 + 0.45$ and $0.45 = \frac{9}{20}$, so $2\frac{9}{20}$.

45. $\frac{67}{90}$
Let $x = 0.7\overline{4}$. Then
$100x - 10x = 74.\overline{4} - 7.\overline{4} = 67$, so $x = \frac{67}{90}$.

46. $\frac{8}{33}$
Let $x = 0.\overline{24}$. Then $100x - x = 24$, so
$x = \frac{24}{99} = \frac{8}{33}$.

47. $\frac{26}{33}$
Let $x = 0.\overline{78}$. Then $100x - x = 78$, so
$x = \frac{78}{99} = \frac{26}{33}$.

48. **38%**
$\frac{19}{50} = \frac{38}{100}$, which is 38%.

49. $\frac{7}{20}$
$35\% = \frac{35}{100} = \frac{7}{20}$.

50. $\frac{2}{5}$
$0.4 = \frac{4}{10} = \frac{2}{5}$.