Fractions and Decimals — Worksheet

Fractions → Decimals

Convert each fraction into a decimal. Show your working when needed.

1. $\frac{1}{2}$ = _____
2. $\frac{3}{4}$ = _____
3. $\frac{1}{5}$ = _____
4. $\frac{7}{10}$ = _____
5. $\frac{3}{8}$ = _____
6. $\frac{9}{20}$ = _____

Decimals → Fractions

Convert each decimal into a fraction. **Simplify your answer.**

7. 0.5 = _____
8. 0.25 = _____
9. 0.8 = _____
10. 0.6 = _____
11. 0.75 = _____
12. 0.125 = _____

Equivalent Pairs

Match each fraction to its equivalent decimal.

	Fraction	Decimal
13.	$\frac{1}{4}$	A. 0.4
14.	$\frac{3}{5}$	B. 0.25
15.	$\frac{7}{10}$	C. 0.6
16.	$\frac{2}{5}$	D. 0.7

13. _____ 14. _____ 15. _____ 16. _____

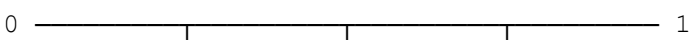
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Number Line

Place these values in the correct positions on the number line:

0.5, $\frac{1}{4}$, 0.9, $\frac{3}{4}$



17. Write the four numbers in order from **least to greatest**:

_____ < _____ < _____ < _____

E. Compare Fractions and Decimals

Write **<, >, or =**.

18. $\frac{1}{2}$ _____ 0.6
19. 0.75 _____ $\frac{3}{4}$
20. $\frac{2}{5}$ _____ 0.35
21. 0.8 _____ $\frac{7}{10}$
22. $\frac{1}{4}$ _____ 0.25
23. 0.45 _____ $\frac{1}{2}$

F. Apply Your Skills

24. Mia completed $\frac{3}{5}$ of a homework assignment. Noah completed **0.65** of the same assignment. Who completed more? _____

25. A bottle is **0.75 full**. Write this amount as a fraction in simplest form.

Answer: _____

26. Three students completed these fractions of a challenge:

- Alex: $\frac{7}{10}$
- Ben: 0.65
- Chloe: $\frac{3}{4}$

Put the students in order from **least completed to most completed**.

_____ → _____ → _____

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Fractions → Decimals

1. $\frac{1}{2} = 0.5$
2. $\frac{3}{4} = 0.75$
3. $\frac{1}{5} = 0.2$
4. $\frac{7}{10} = 0.7$
5. $\frac{3}{8} = 0.375$
6. $\frac{9}{20} = 0.45$

Decimals → Fractions

7. $0.5 = \frac{1}{2}$
8. $0.25 = \frac{1}{4}$
9. $0.8 = \frac{4}{5}$
10. $0.6 = \frac{3}{5}$
11. $0.75 = \frac{3}{4}$
12. $0.125 = \frac{1}{8}$

Equivalent Pairs

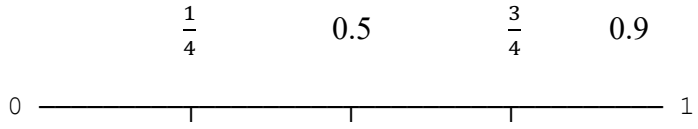
	Fraction	Decimal
13.	$\frac{1}{4}$	A. 0.4
14.	$\frac{3}{5}$	B. 0.25
15.	$\frac{7}{10}$	C. 0.6
16.	$\frac{2}{5}$	D. 0.7

13. B 14. C 15. D 16. A

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Fractions and Decimals — Worksheet

Number Line



18. Write the four numbers in order from **least to greatest**:

$\frac{1}{4} < \frac{3}{4} < 0.5 < 0.9$

E. Compare Fractions and Decimals

Write **<, >, or =**.

19. $\frac{1}{2}$ <. 0.6
20. 0.75 =. $\frac{3}{4}$
21. $\frac{2}{5}$ > 0.35
22. 0.8 > $\frac{7}{10}$
23. $\frac{1}{4}$ = 0.25
24. 0.45 < $\frac{1}{2}$

F. Apply Your Skills

25. Mia completed $\frac{3}{5}$ of a homework assignment. Noah completed **0.65** of the same assignment. Who completed more? **Noa**h

26. A bottle is **0.75 full**. Write this amount as a fraction in simplest form.

Answer: $\frac{3}{4}$

27. Three students completed these fractions of a challenge:

- Alex: $\frac{7}{10}$
- Ben: 0.65
- Chloe: $\frac{3}{4}$

Put the students in order from **least completed to most completed**.

Ben → Alex → Chloe

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