

Ultimate Equivalent Fractions, Decimals and Percentages Challenge

Name:

Number Correct:

Time Taken:

Previous Score:



Match the following decimal numbers, percentages and fractions.

| | | | | | |
|-----|-----|----------------|-------|---------------|-------|
| 0.3 | 50% | $\frac{2}{5}$ | 0.25 | $\frac{1}{2}$ | 12.5% |
| 0.5 | 40% | $\frac{1}{5}$ | 0.375 | $\frac{1}{8}$ | 50% |
| 0.4 | 70% | $\frac{7}{10}$ | 0.75 | $\frac{7}{8}$ | 87.5% |
| 0.7 | 20% | $\frac{1}{2}$ | 0.5 | $\frac{3}{8}$ | 25% |
| 0.9 | 30% | $\frac{9}{10}$ | 0.125 | $\frac{1}{4}$ | 75% |
| 0.2 | 90% | $\frac{3}{10}$ | 0.875 | $\frac{3}{4}$ | 37.5% |

Write the equivalent fraction (in its simplest form) to the following:

| | | | | | |
|-------|--------|-------|--------|---------|-------|
| 75% = | 30% = | 15% = | 90% = | 50% = | 35% = |
| 0.6 = | 0.95 = | 0.1 = | 0.25 = | 0.625 = | 0.2 = |
| 25% = | 0.9 = | 0.5 = | 5% = | 0.4 = | 85% = |

Write the equivalent decimal and percentage to the following:

| | | | |
|------------------|-----------------|------------------|------------------|
| $\frac{1}{2}$ = | $\frac{3}{4}$ = | $\frac{1}{5}$ = | $\frac{1}{3}$ = |
| $\frac{4}{5}$ = | $\frac{3}{8}$ = | $\frac{1}{10}$ = | $\frac{1}{6}$ = |
| $\frac{7}{10}$ = | $\frac{2}{5}$ = | $\frac{5}{8}$ = | $\frac{7}{20}$ = |

Write the missing equivalent fraction (in its simplest form), decimal or percentage as needed.

| | | |
|-------|-----------------|-----------------|
| 0.7 = | $\frac{1}{8}$ = | 75% = |
| 20% = | 0.01 = | $\frac{2}{3}$ = |

Ultimate Equivalent Fractions, Decimals and Percentages Challenge Activity Sheet **Answers**

Match the following decimal numbers, percentages and fractions.

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---------------|----------------|---------------|-----|-----|---------------|-----|-----|----------------|-----|-----|---------------|-----|-----|----------------|-----|-----|----------------|--|------|---------------|-------|-------|---------------|-----|------|---------------|-------|-----|---------------|-----|-------|---------------|-----|-------|---------------|-------|
| <table style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 33%;">0.3</td><td style="width: 33%;">50%</td><td style="width: 33%;">$\frac{2}{5}$</td></tr> <tr><td>0.5</td><td>40%</td><td>$\frac{1}{5}$</td></tr> <tr><td>0.4</td><td>70%</td><td>$\frac{7}{10}$</td></tr> <tr><td>0.7</td><td>20%</td><td>$\frac{1}{2}$</td></tr> <tr><td>0.9</td><td>30%</td><td>$\frac{9}{10}$</td></tr> <tr><td>0.2</td><td>90%</td><td>$\frac{3}{10}$</td></tr> </table> | 0.3 | 50% | $\frac{2}{5}$ | 0.5 | 40% | $\frac{1}{5}$ | 0.4 | 70% | $\frac{7}{10}$ | 0.7 | 20% | $\frac{1}{2}$ | 0.9 | 30% | $\frac{9}{10}$ | 0.2 | 90% | $\frac{3}{10}$ | <table style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 33%;">0.25</td><td style="width: 33%;">$\frac{1}{2}$</td><td style="width: 33%;">12.5%</td></tr> <tr><td>0.375</td><td>$\frac{1}{8}$</td><td>50%</td></tr> <tr><td>0.75</td><td>$\frac{7}{8}$</td><td>87.5%</td></tr> <tr><td>0.5</td><td>$\frac{3}{8}$</td><td>25%</td></tr> <tr><td>0.125</td><td>$\frac{1}{4}$</td><td>75%</td></tr> <tr><td>0.875</td><td>$\frac{3}{4}$</td><td>37.5%</td></tr> </table> | 0.25 | $\frac{1}{2}$ | 12.5% | 0.375 | $\frac{1}{8}$ | 50% | 0.75 | $\frac{7}{8}$ | 87.5% | 0.5 | $\frac{3}{8}$ | 25% | 0.125 | $\frac{1}{4}$ | 75% | 0.875 | $\frac{3}{4}$ | 37.5% |
| 0.3 | 50% | $\frac{2}{5}$ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.5 | 40% | $\frac{1}{5}$ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.4 | 70% | $\frac{7}{10}$ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.7 | 20% | $\frac{1}{2}$ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.9 | 30% | $\frac{9}{10}$ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.2 | 90% | $\frac{3}{10}$ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.25 | $\frac{1}{2}$ | 12.5% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.375 | $\frac{1}{8}$ | 50% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.75 | $\frac{7}{8}$ | 87.5% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.5 | $\frac{3}{8}$ | 25% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.125 | $\frac{1}{4}$ | 75% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.875 | $\frac{3}{4}$ | 37.5% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Write the equivalent fraction (in its simplest form) to the following:

| | | | | | |
|----------------------|------------------------|-----------------------|-----------------------|-----------------------|------------------------|
| $75\% = \frac{3}{4}$ | $30\% = \frac{3}{10}$ | $15\% = \frac{3}{20}$ | $90\% = \frac{9}{10}$ | $50\% = \frac{1}{2}$ | $35\% = \frac{7}{20}$ |
| $0.6 = \frac{3}{5}$ | $0.95 = \frac{19}{20}$ | $0.1 = \frac{1}{10}$ | $0.25 = \frac{1}{4}$ | $0.625 = \frac{5}{8}$ | $0.2 = \frac{1}{5}$ |
| $25\% = \frac{1}{4}$ | $0.9 = \frac{9}{10}$ | $0.5 = \frac{1}{2}$ | $5\% = \frac{1}{20}$ | $0.4 = \frac{2}{5}$ | $85\% = \frac{17}{20}$ |

Write the equivalent decimal and percentage to the following:

| | | | |
|-----------------------------|--------------------------------|--------------------------------|--------------------------------|
| $\frac{1}{2} = 0.5 = 50\%$ | $\frac{3}{4} = 0.75 = 75\%$ | $\frac{1}{5} = 0.2 = 20\%$ | $\frac{1}{3} = 0.33 = 33.3\%$ |
| $\frac{4}{5} = 0.8 = 80\%$ | $\frac{3}{8} = 0.375 = 37.5\%$ | $\frac{1}{10} = 0.1 = 10\%$ | $\frac{1}{6} = 0.166 = 16.6\%$ |
| $\frac{7}{10} = 0.7 = 70\%$ | $\frac{2}{5} = 0.4 = 40\%$ | $\frac{5}{8} = 0.625 = 62.5\%$ | $\frac{7}{20} = 0.35 = 35\%$ |

Write the missing equivalent fraction (in its simplest form), decimal or percentage as needed.

| | | |
|-----------------------------|--------------------------------|-------------------------------|
| $0.7 = \frac{7}{10} = 70\%$ | $\frac{1}{8} = 0.125 = 12.5\%$ | $75\% = \frac{3}{4} = 0.75$ |
| $20\% = \frac{1}{5} = 0.2$ | $0.01 = \frac{1}{100} = 1\%$ | $\frac{2}{3} = 0.66 = 66.6\%$ |

* Allow equivalent fractions and rounding as appropriate for thirds and sixths