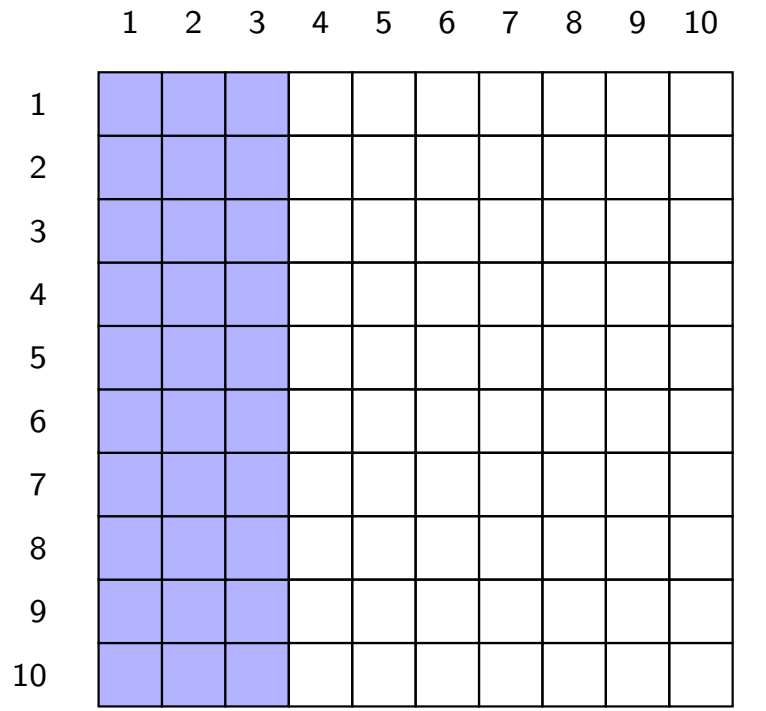
Percentages: Starters

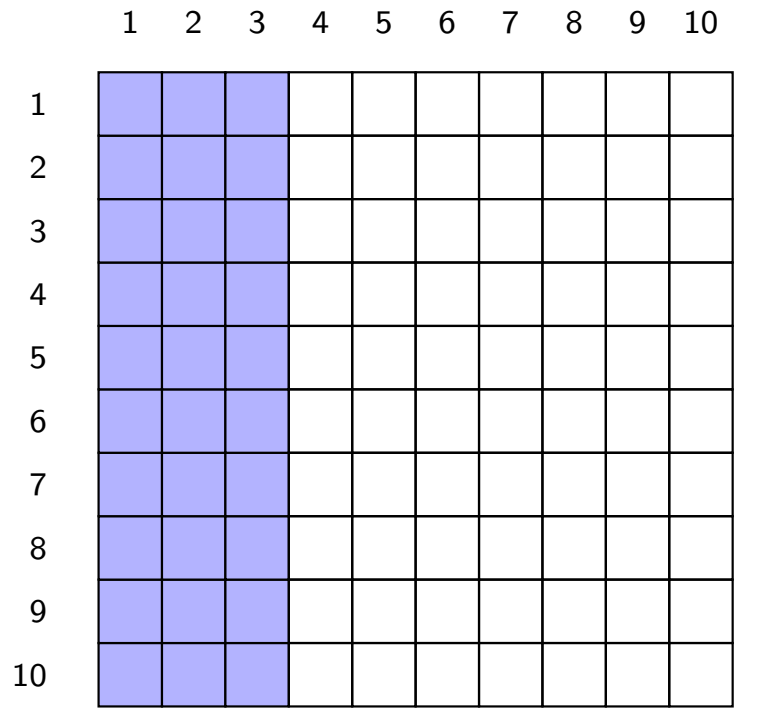
Starter



__ squares out of ___ are shaded

1. In the diagram how many squares are shaded? __
2. How many total squares are there? ___
3. $70 + 30 =$ ___
4. $25 \times 4 =$ ___
5. What fraction of the square is shaded:
6. "Per cent" means "out of ___".
7. The shaded fraction = __%
8. Write $\frac{1}{2}$ as a percentage. ____
9. Write $\frac{1}{4}$ as a percentage. ____
10. Write $\frac{5}{4}$ as a percentage. _____

Starter



30 squares out of 100 are shaded

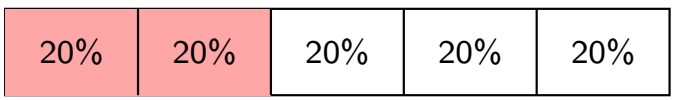
1. In the diagram how many squares are shaded? 30
2. How many total squares are there? 100
3. $70 + 30 =$ 100
4. $25 \times 4 =$ 100
5. What fraction of the square is shaded: $\frac{30}{100}$
6. "Per cent" means "out of 100".
7. The shaded fraction $=$ 30%
8. Write $\frac{1}{2}$ as a percentage. 50%
9. Write $\frac{1}{4}$ as a percentage. 25%
10. Write $\frac{5}{4}$ as a percentage. 125%

Starter

$\frac{1}{5}$

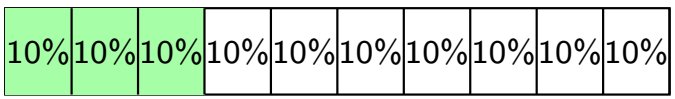
$= \_\_\%$

$\frac{2}{5}$



$= \_\_\%$

$\frac{3}{10}$



$= \_\_\%$

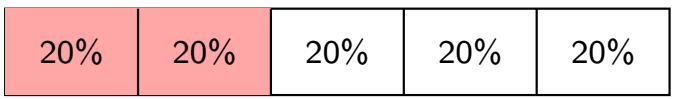
1. $3 \times 20 = \_\_$
2. $7 \times 10 = \_\_$
3. $\frac{1}{5} = \_\_\%$
4. $\frac{2}{5} = \_\_\%$
5. $\frac{3}{10} = \_\_\%$
6. $\frac{?}{10} = 70\%$
7. $\frac{1}{?} = 25\%$
8. $\frac{2}{25} = \_\%$
9. $\frac{7}{8} = \_\_\_\_\%$
10. $\frac{5}{3} = \_\_\_\_\_$
11. Complete the conversion:
    $\frac{?}{4} = \frac{75}{?} = 75\%$

Starter

$\frac{1}{5}$

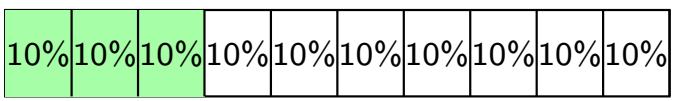
$= \underline{20}\%$

$\frac{2}{5}$



$= \underline{40}\%$

$\frac{3}{10}$

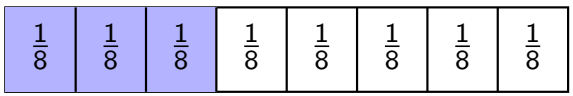


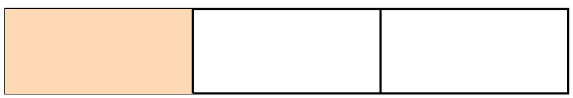
$= \underline{30}\%$

1. $3 \times 20 = \underline{60}$
2. $7 \times 10 = \underline{70}$
3. $\frac{1}{5} = \underline{20}\%$
4. $\frac{2}{5} = \underline{40}\%$
5. $\frac{3}{10} = \underline{30}\%$
6. $\frac{7}{10} = 70\%$
7. $\frac{1}{4} = 25\%$
8. $\frac{2}{25} = \underline{8}\%$
9. $\frac{7}{8} = \underline{87.5}\%$
10. $\frac{5}{3} = \underline{166.\dot{6}\%}$
11. Complete the conversion:
    $\frac{3}{4} = \frac{75}{100} = 75\%$

Starter

$\frac{1}{8} = 12.5\%$





Questions

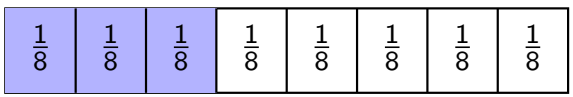
1. Write $\frac{1}{2}$ as a percentage. ____
2. Write $\frac{3}{10}$ as a percentage. ____
3. What does "per cent" mean?

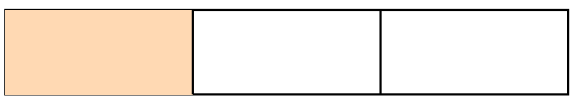
   _____
4. Convert $\frac{3}{8}$ to a percentage. _____
5. What percentage of the second bar is shaded orange? _____
6. Convert $\frac{2}{3}$ to a percentage. _____
7. What is $\frac{4}{3}$ as a percentage, round your percentage to one decimal place.

   _____
8. What fraction does 0.1% equal?
9. What fraction does 0.003% equal?

Starter

$\frac{1}{8} = 12.5\%$

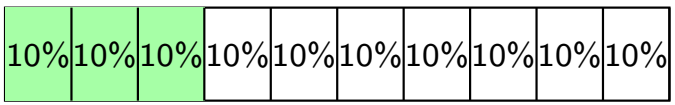


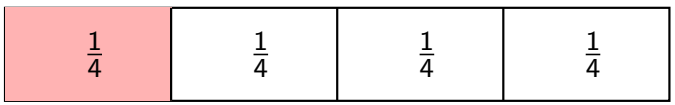


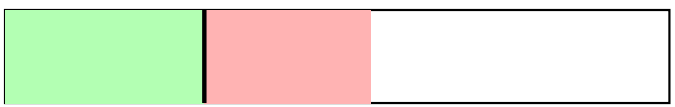
Questions

1. Write $\frac{1}{2}$ as a percentage. 50%
2. Write $\frac{3}{10}$ as a percentage. 30%
3. What does "per cent" mean? out of 100
4. Convert $\frac{3}{8}$ to a percentage. 37.5%
5. What percentage of the second bar is shaded orange? $33.\dot{3}\%$
6. Convert $\frac{2}{3}$ to a percentage. $66.\dot{6}\%$
7. What is $\frac{4}{3}$ as a percentage, round your percentage to one decimal place. 133.3%
8. What fraction does 0.1% equal? $\frac{1}{1000}$
9. What fraction does 0.003% equal? $\frac{3}{100{,}000}$

Starter



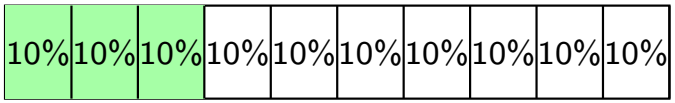




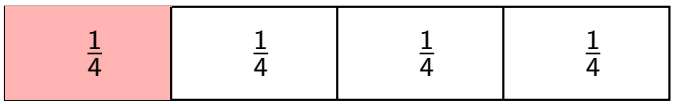
1. $50\% + 50\% =$ ____
2. $25\% + 25\% =$ ____
3. Write $\frac{1}{5}$ as a percentage: ____
4. Complete the sum represented by the diagram:
   $3 \times ?\% + \frac{1}{?} = 30\% + 25\% = 55\%$
5. $20\% + \frac{3}{10} =$ ____
6. $\frac{1}{2} + 15\% =$ ____
7. $45\% + \frac{1}{5} =$ ____
8. Which is larger: $\frac{3}{8}$ or 40%?
9. $\frac{2}{5} + \frac{3}{10} + 20\% =$ ____
10. A class finishes $\frac{1}{3}$ of a project, then 20% more. What percentage have they completed in total?

Starter

1. $50\% + 50\% = \underline{100\%}$
2. $25\% + 25\% = \underline{50\%}$
3. Write $\frac{1}{5}$ as a percentage: $\underline{20\%}$
4. Complete the sum represented by the diagram:



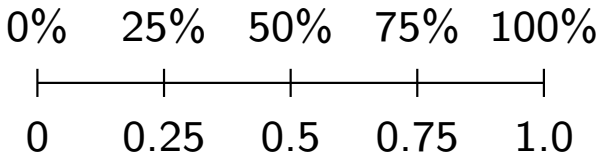
$3 \times 10\% + \frac{1}{4} = 30\% + 25\% = 55\%$

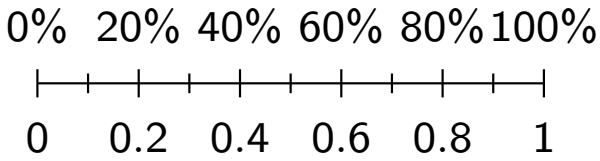


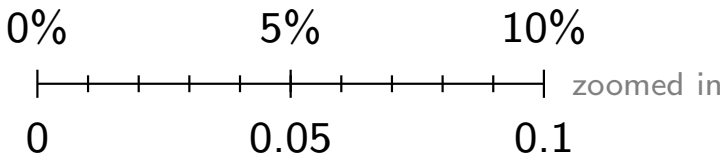
5. $20\% + \frac{3}{10} = \underline{50\%}$

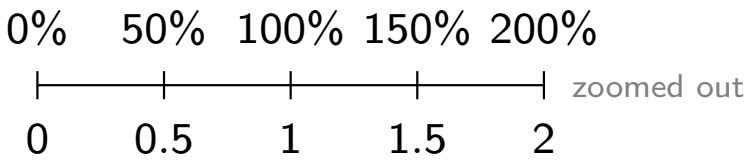
6. $\frac{1}{2} + 15\% = \underline{65\%}$
7. $45\% + \frac{1}{5} = \underline{65\%}$
8. Which is larger: $\frac{3}{8}$ or 40%?
   $\underline{40\% \left(\frac{3}{8} = 37.5\%\right)}$
9. $\frac{2}{5} + \frac{3}{10} + 20\% = \underline{90\%}$
10. A class finishes $\frac{1}{3}$ of a project, then 20% more. What percentage have they completed in total? $33.\dot{3}\% + 20\% = 53.\dot{3}\%$

Starter



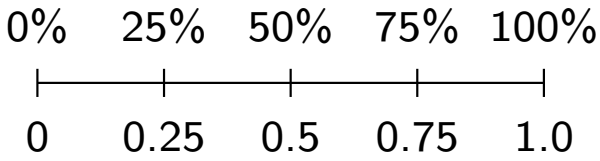


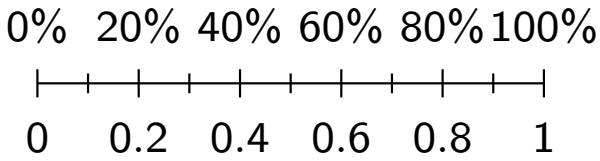


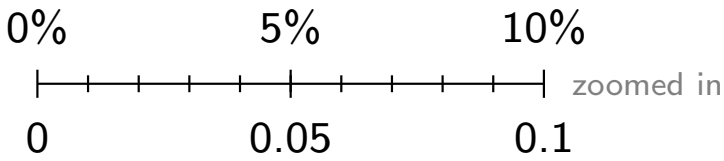


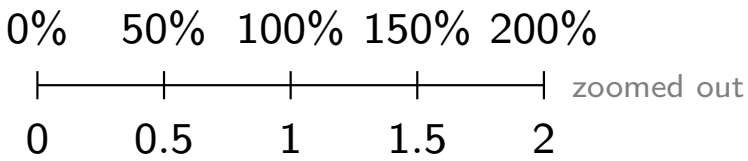
1. $0.6 + 0.4 = \_$
2. $0.25 \times 4 = \_$
3. Write $\frac{3}{10}$ as a decimal: ___
4. Write $\frac{7}{100}$ as a decimal: ____
5. $0.5 = \_\_\%$
6. $0.3 = \_\_\%$
7. $0.75 = \_\_\%$
8. $0.08 = \_\%$
9. $0.125 = \_\_\_\_\%$
10. $1.4 = \_\_\_\%$
11. $0.005 = \_\_\_\%$
12. $0.92 \rightarrow \_\_\%$
13. *Challenge:* Convert 0.0625 to a %, then write as a fraction in simplest form.

Starter









1. $0.6 + 0.4 = \underline{1}$
2. $0.25 \times 4 = \underline{1}$
3. Write $\frac{3}{10}$ as a decimal: $\underline{0.3}$
4. Write $\frac{7}{100}$ as a decimal: $\underline{0.07}$
5. $0.5 = \underline{50}\%$
6. $0.3 = \underline{30}\%$
7. $0.75 = \underline{75}\%$
8. $0.08 = \underline{8}\%$
9. $0.125 = \underline{12.5}\%$
10. $1.4 = \underline{140}\%$
11. $0.005 = \underline{0.5}\%$
12. $0.92 \rightarrow \underline{92}\%$
13. *Challenge:* Convert 0.0625 to a %, then write as a fraction in simplest form. $6.25\% = \frac{1}{16}$