

Forming Percentages



Use the diagram to find the missing amount or percentage, then answer without a diagram.

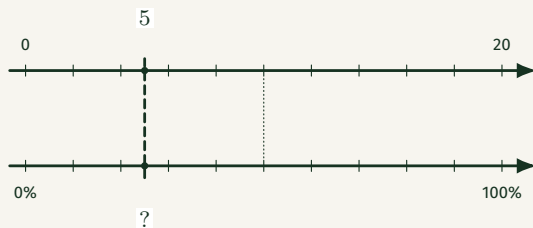
Name _____

Date _____

Show your method

Write the part over the whole as a fraction, then divide to get a decimal, then multiply by 100 for the percentage. Convert units so the part and whole match before dividing.

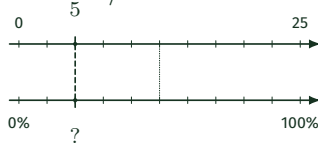
Worked example Write 5 out of 20 as a percentage.



Fraction: $\frac{5}{20} = \frac{1}{4}$
 Decimal: $1 \div 4 = 0.25$
 Percentage: $0.25 \times 100 = 25\%$

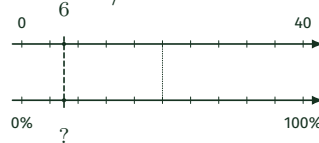
1. Find the missing percentage marked ?.

Solution: $5/25 = 20\%$



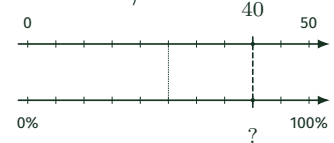
2. Find the missing percentage marked ?.

Solution: $6/40 = 15\%$



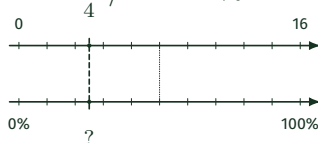
3. Find the missing percentage marked ?.

Solution: $40/50 = 80\%$



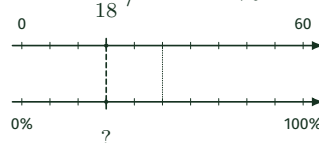
4. Find the missing percentage marked ?.

Solution: $4/16 = 25\%$



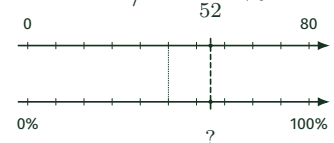
5. Find the missing percentage marked ?.

Solution: $18/60 = 30\%$



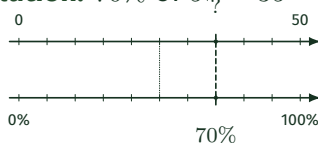
6. Find the missing percentage marked ?.

Solution: $52/80 = 65\%$



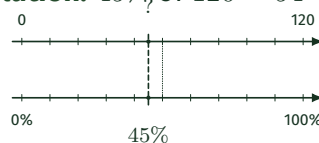
7. Find the missing amount marked ?.

Solution: $70\% \text{ of } 50 = 35$



8. Find the missing amount marked ?.

Solution: $45\% \text{ of } 120 = 54$



9. Write 26 out of 40 as a percentage.

Solution: $26/40 = 65\%$

Forming Percentages (continued)



Solutions: write each amount as a percentage without a diagram.

Name _____

Date _____

10. Write 7 out of 20 as a percentage.

Solution: 35%

11. Write 33 out of 50 as a percentage.

Solution: 66%

12. Write 9 out of 15 as a percentage.

Solution: 60%

13. A class of 24 students has 6 absent. What percentage of the class is absent?

Solution: $6/24 = 25\%$

14. A recipe uses 300 g of sugar out of a 750 g bag. What percentage of the bag does the recipe use?

Solution: $300/750 = 40\%$

15. Out of 45 minutes, a student spends 27 minutes on homework. What percentage of the time is spent on homework?

Solution: $27/45 = 60\%$

16. 36 out of 48 shots were successful in a basketball game. What percentage were successful?

Solution: $36/48 = 75\%$

17. A tank's capacity is 80 L. It currently holds 52 L. What percentage of the tank's capacity is filled?

Solution: $52/80 = 65\%$

18. In a survey of 150 people, 27 preferred juice over water. What percentage preferred juice?

Solution: $27/150 = 18\%$