

Boost Free Lessons - Year 7 Maths

Lesson 10: Percentage of a Quantity

Name: _____ Grade: _____ Date: _____

Worked Example 1

Find 15% of 80.

1. Per cent means “out of 100”, so $15\% = \frac{15}{100}$.
2. $15\% \text{ of } 80 = \frac{15}{100} \times 80$.
3. Multiply first: $15 \times 80 = 1\,200$.
4. Then divide by 100: $1\,200 \div 100 = 12$.

15% of 80 = 12

Worked Example 2

A bike costs \$250 and is discounted by 20%. Find the sale price.

1. Find 10% first by dividing by 10: $10\% \text{ of } 250 = 25$.
2. Double it to get 20%: $20\% \text{ of } 250 = 50$.
3. That \$50 is the discount.
4. Sale price = $250 - 50$.

Sale price = \$200

Remember: 10% is found by dividing by 10. Build the rest from there. 5% is half of 10%, 20% is double, 30% is triple.



Question 1: Find the following.

1. 10% of 60
2. 50% of 84
3. 25% of 40
4. 20% of 90
5. 5% of 200
6. 75% of 48
7. 30% of 150
8. 40% of 65
9. 12% of 300
10. 8% of 250



Question 2: Find the following.

1. 15% of \$60

2. 35% of 200 g

3. 60% of 45 minutes

4. 90% of \$1 200

5. 2.5% of 400

6. 110% of 50

7. 45% of 80 kg

8. 6% of \$850



Question 3: Answer the following questions.

1. A \$45 shirt is discounted by 30%. Find the discount and the sale price.
2. A restaurant bill of \$120 has a 10% service charge added. What is the total?
3. Out of 250 students, 36% catch the bus to school. How many students catch the bus?
4. A laptop is priced at \$900 before GST. GST adds 10%. What is the total price?
5. A \$60 pair of shoes goes up in price by 5%. What is the new price?





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Answers : Percentage of a Quantity

Question 1

- | | |
|-------|--------|
| 1. 6 | 6. 36 |
| 2. 42 | 7. 45 |
| 3. 10 | 8. 26 |
| 4. 18 | 9. 36 |
| 5. 10 | 10. 20 |

Question 2

- | | |
|---------------|----------|
| 1. \$9 | 5. 10 |
| 2. 70 g | 6. 55 |
| 3. 27 minutes | 7. 36 kg |
| 4. \$1 080 | 8. \$51 |

Question 3

1. Discount \$13.50, sale price \$31.50
2. \$132
3. 90 students
4. \$990
5. \$63

