

Boost Free Lessons - Year 6 Maths

Lesson 13: Finding Percentages of a Quantity

Name: _____ Grade: _____ Date: _____

Worked Example 1

Find 10%, 25% and 50% of 80.

1. These three percentages have quick methods worth memorising.
2. **10%** means divide by 10: $80 \div 10 = 8$.
3. **25%** is a quarter, so divide by 4: $80 \div 4 = 20$.
4. **50%** is a half, so divide by 2: $80 \div 2 = 40$.

10% = 8, 25% = 20, 50% = 40

Worked Example 2

Find 35% of 60.

1. Build 35% from parts you can find quickly.
2. 10% of 60 = 6, so 30% = $6 \times 3 = 18$.
3. 5% is half of 10%, so 5% of 60 = 3.
4. Add them: $30\% + 5\% = 18 + 3 = 21$.

35% of 60 = 21

Remember: **10%:** divide by 10. **25%:** divide by 4. **50%:** divide by 2. Build any other percentage from these, since 5% is half of 10%.



Question 1: Find the following.

1. 10% of 50

2. 10% of 130

3. 25% of 40

4. 25% of 200

5. 50% of 90

6. 50% of 46

7. 20% of 60

8. 75% of 80



Question 2: Answer the following.

1. Find 15% of 40.

2. Find 35% of 200.

3. Find 5% of 300.

4. Find 90% of 70.

5. Find 12.5% of 80.

6. Explain how to find 30% of a number using 10%.



Question 3: Answer the following questions.

1. A \$60 jacket is discounted by 25%. Find the discount.
2. A restaurant bill of \$80 has 10% added. What is the total?
3. Of 240 students, 50% catch the bus. How many is that?
4. A tank holds 500 litres and is 20% full. How many litres is that?
5. A \$45 game is reduced by 20%. Find the reduction.





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Answers: Finding Percentages of a Quantity**Question 1**

1. 5
2. 13
3. 10
4. 50
5. 45
6. 23
7. 12
8. 60

Question 2

1. 6
2. 70
3. 15
4. 63
5. 10
6. Find 10% by dividing by 10, then multiply that answer by 3.

Question 3

1. \$15
2. \$88
3. 120 students
4. 100 litres
5. \$9

