MATHEMATICS · GRADES 7-9

Discounts

Difficulty level: Intermediate

Mathematics: Grades 7-9

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Overview of the concept

This is how you work out the sale price of something before you get to the till. A jacket marked 25 percent off costs three quarters of its original price, and working that out yourself tells you whether it fits your budget. It also lets you compare two sales, like 25 percent off against 30 dollars off, and see which one saves you more. A quick bit of maths in the shop beats a surprise at the checkout.



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Worked examples

EXAMPLE 1

Q A jacket costs $60. It is discounted by 20 percent. Find the sale price.

SOLUTION

This is a discount question, and the quick way is to work out what percent you still pay: 100% – 20% = 80%

80% of $60 is 0.80 × $60

That is $48, so the sale price is $48

EXAMPLE 2

Q A $90 bag is on sale for $63. What percent off is that?

SOLUTION

This asks for the percent discount, so find the amount saved first.

$90 – $63 = $27 saved

$27 out of $90 is 27 ÷ 90 = 0.30, so the discount is 30%

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Practice questions

1. An item costs $40, discounted 25%. Find the discount amount.

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2. An item costs $30, discounted 10%. Find the sale price.

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3. An item costs $300, discounted 10%, then a further 10% off the sale price. What is the final price?

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4 An item costs $80, discounted 25%. Find the sale price.

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5 An item costs $120 after 20% off. What was the original price?

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6 An item costs $25, discounted 20%. Find the discount amount.

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7 An item costs $200, discounted 15%. Find the sale price.

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8 A $50 item is on sale for $40. What percent off is that?

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9 A $150 item is 10% off. What percent of the price do you pay?

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10

Which saves more on $100: 25% off or $20 off?

A $20 off

B 25% off

C They save the same amount

D You cannot tell from the information given

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ANSWER KEY

1. $10

2. $27

3. $243

4. $60

5. $150

6. $5

7. $170

8. 20%

9. 90%

10. 25% off

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