GETTING READY FOR GRADE 7

LESSON

GR3.4 Applying Percents

ESSENTIAL QUESTION

How can you solve percent problems involving discounts and sales tax?

EXPLORE ACTIVITY

Sales tax is a tax that is a percent of a price that is added to the price of an item.

A video game costs $30. The sales tax rate is 6%. What is the final cost of the video game?

A Find the sales tax.

Find 6% of _____.

Write 6% as a decimal. _____

Multiply the cost by the sales tax rate.

$30 × 0.06 = $_____

The sales tax is _____.

B Find the final cost.

_____ to find the final cost.

regular price + sales tax = final cost

_____ + _____ = _____

The final cost is _____.

A *discount* is a percent of a price that is subtracted from the original price. A *sale price* is the price after the discount is subtracted.

A skateboard costs $48. Sports World is offering a 25% discount on the skateboard. What is the sale price?

C Find the discount. Find 25% of _____.

Write 25% as a decimal. _____

Multiply the regular price by the discount.

_____ × $48 = _____

The discount is _____.

D Find the sale price.

_____ to find the sale price.

regular price − discount = sale price

_____ − _____ = _____

The sale price is _____.

REFLECT

1. How is finding a discount similar to finding sales tax? How is it different?

_____

_____

_____

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YOUR TURN

2. A graphic novel costs $24. The sales tax is 5%. What is the final cost of the graphic novel? _____

3. A jacket regularly costs $50. It is discounted 15%. What is the sale price of the jacket? _____

Guided Practice

1. A sports shirt costs $32 plus tax. The sales tax is 8%. What is the sales tax?

Find 8% of 32.

8% = _____ *Change 8% to a decimal.*

_____ × $32 = _____ *Multiply to get sales tax.*

2. Find the final cost of the sports shirt.

Regular price + Sales tax = Final Cost

$32 + _____ = _____

ESSENTIAL QUESTION CHECK-IN

3. How do you find a sale price?

_____

_____

Independent Practice

Find the sales tax and the final cost.

4. Soccer ball: $18
Sales tax rate: 3%
Sales tax: _____
Final cost: _____

5. Remote control car: $52
Sales tax rate: 8%
Sales tax: _____
Final cost: _____

6. Sneakers: $35
Sales tax rate: 7%
Sales tax: _____
Final cost: _____

Find the discount and the sale price.

7. Tennis racket: $18
Discount percent: 20%
Discount amount: _____
Sale price: _____

8. Jeans: $26
Discount percent: 10%
Discount amount: _____
Sale price: _____

9. Lamp: $53
Discount percent: 25%
Discount amount: _____
Sale price: _____

10. Which costs less, a shirt that regularly sells for $20 that is discounted 10% or a shirt that regularly sells for $24 that is discounted 20%? How do you know?

_____

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