LESSON MAKER PRO

Money Math Switch

Change fractions, decimals, and percents with confidence.

GRADE 6 · TEKS 6.4.G

6.4.G "generate equivalent forms of fractions, decimals, and percents using real-world problems, including problems that involve money; and"

NAME _____ DATE _____

ONE VALUE, THREE FORMS

A fraction, decimal, and percent can name the same part of a whole. To change a decimal to a percent, multiply by 100 and add the percent sign. To change a percent to a decimal, divide by 100.

WORKED EXAMPLE

Write 9/25 as a decimal and a percent.

1. Make a fraction with a denominator of 100: 9/25 = 36/100.
2. Write 36/100 as a decimal: 0.36.
3. Write the numerator of 36/100 as a percent: 36%.

Answer: 9/25 = 0.36 = 36%

PRACTICE 6 problems

1 Write 3/4 as a decimal and a percent.

ANSWER _____

2 Write 0.2 as a fraction in simplest form and as a percent.

ANSWER _____

3 Write 140% as a decimal and as a fraction in simplest form.

ANSWER _____

4 A $1 bill is one whole dollar. Write $0.42 as a fraction of $1 in simplest form and as a percent.

ANSWER _____

5 Write 7/8 as a decimal and a percent.

ANSWER _____

6 Write 0.125 as a fraction in simplest form and as a percent.

ANSWER _____

APPLY IT Show your work

1 A game download costs $24. A coupon gives 15% off. Write 15% as a decimal and as a fraction in simplest form. Then find the dollars saved and the sale price.

WORK SPACE

ANSWER _____

2 A design club polls 40 students. The decimal 0.35 represents the part of students who want a mural project. Write 0.35 as a fraction in simplest form and as a percent. Then find how many students want the mural.

WORK SPACE

ANSWER _____

CHALLENGE One step up

A $40 hoodie is on sale for 12.5% off. Sales tax of 8% is added after the discount. Write 12.5% as a decimal and a fraction in simplest form. Then find the discount, the sales tax, and the final price. Explain why the tax is not found from the original $40 price.

WORK SPACE AND ANSWER

ANSWER KEY

Money Math Switch

GRADE 6 · TEKS 6.4.G

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Write 3/4 as a decimal and a percent.	**0.75; 75%**
2	Write 0.2 as a fraction in simplest form and as a percent.	**1/5; 20%**
3	Write 140% as a decimal and as a fraction in simplest form.	**1.4; 7/5**
4	A $1 bill is one whole dollar. Write $0.42 as a fraction of $1 in simplest form and as a percent.	**21/50; 42%**
5	Write 7/8 as a decimal and a percent.	**0.875; 87.5%**
6	Write 0.125 as a fraction in simplest form and as a percent.	**1/8; 12.5%**

PART 2 · APPLY IT

1. **15% = 0.15 = 3/20. The coupon saves $3.60, so the sale price is $20.40.** Multiply $24 by 0.15 to find the savings. Subtract the savings from $24.
2. **0.35 = 7/20 = 35%. Fourteen students want the mural.** Change 0.35 to 35/100 and simplify. Multiply 40 by 0.35 to find the number of students.

CHALLENGE

12.5% = 0.125 = 1/8. The discount is $5, the discounted price is $35, the sales tax is $2.80, and the final price is $37.80. The tax is based on the discounted price of $35, not the original price.

Accept equivalent fractions only if they are mathematically correct, but require simplest form when the item asks for it. Accept dollar amounts written with or without a trailing zero when the value is correct.