ALBERT

Name _____ Date _____

Multi-Step Word Problems Worksheet

Grade 7 · Common Core 7.EE.B.3

> Solve multi-step real-life and mathematical problems posed with positive and negative rational numbers in any form (whole numbers, fractions, and decimals), using tools strategically. Apply properties of operations to calculate with numbers in any form; convert between forms as appropriate; and assess the reasonableness of answers using mental computation and estimation strategies.

Practice

Builds the skill step by step.

1. A shirt costs $24 and is 25% off. What is the sale price?

2. Sam earns $9.50 per hour and works 6 hours. He spends $15. How much of his pay is left?

3. A recipe uses $\frac{3}{4}$ cup of sugar per batch. Ana makes $2\frac{1}{2}$ batches. How much sugar does she use?

   A. $2\frac{1}{4}$ cups

   B. $3\frac{1}{4}$ cups

   C. $1\frac{1}{2}$ cups

   D. $1\frac{7}{8}$ cups

4. A 10-foot board is cut into pieces $\frac{5}{6}$ foot long. How many pieces are there?

5. Which is greater: 30% of 80 or $\frac{1}{3}$ of 75?

   A. 30% of 80

   B. They are equal

   C. $\frac{1}{3}$ of 75

   D. There is not enough information

6. A worker earns $25 an hour and gets a 10% raise. What is the new hourly wage?

7. Lee walks $\frac{1}{2}$ mile, then $\frac{3}{4}$ mile, then 0.6 mile. How far does he walk in all?

8. A boat uses 1.5 gallons of gas per hour. How much gas does it use in $3\frac{1}{3}$ hours?

9. A phone costs $240. Sales tax is 7%. What is the total cost?

10. A meal costs $38.75. About how much is a 20% tip?

    A. $4

    B. $12

    C. $8

    D. $20

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On Level

Grade-level practice.

1. A store marks up a $40 item by 35%. Later it is on sale for 20% off the new price. What is the sale price?

2. A shelf $18\frac{1}{2}$ inches long is centered on a wall 42 inches wide. How far is each end of the shelf from the edge of the wall?

3. Ava earns $15 per hour and gets a 10% raise. How much more does she earn in a 30-hour week?

4. Which is the best estimate of 19.8% of $251?

   A. $50

   B. $40

   C. $25

   D. $60

5. A tank is $\frac{2}{3}$ full and holds 48 gallons. How many gallons does it hold when full?

6. Maya ran 3.2 km on Monday. On Tuesday she ran $1\frac{1}{4}$ times as far. How far did she run on the two days together?

7. A school sold 340 tickets. 15% were student tickets at $4 each. The rest were adult tickets at $7 each. What was the total amount collected?

8. A recipe uses 2.5 cups of flour for 20 cookies. How much flour is needed for 36 cookies?

9. A $60 jacket is 30% off, and then 8% tax is added to the sale price. What is the total?

   A. $42.00

   B. $46.80

   C. $45.36

   D. $40.80

10. A painter uses $\frac{3}{8}$ gallon of paint per wall. She has $4\frac{1}{2}$ gallons. How many walls can she paint?

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Challenge

Multi-step and word problems that stretch it.

1. A bike costs $204 after a 15% discount. What was the original price?

2. A family drives 186 miles in 3 hours, then 104 miles in 2 hours. What is their average speed for the whole trip?

3. Leo has $50. He buys 3 notebooks at $2.75 each and a calculator that costs $\frac{1}{4}$ of his $50. How much money is left?

4. Jen says a 50% increase followed by a 50% decrease brings a value back to where it started. Starting at $80, what is the final value?

   A. $80

   B. $60

   C. $40

   D. $100

5. A garden is 12.5 m by 8 m. Fencing costs $6.40 per meter. How much does it cost to fence the whole garden?

6. A store sold 2,500 items in May. June sales were 12% higher than May. In July it sold 2,660 items. Did sales go up or down from June to July, and by how many?

7. Pat saves $35 per week. She already has $120. A guitar costs $400. How many weeks until she has enough?

8. A map scale shows $\frac{1}{2}$ inch = 15 miles. Two towns are $3\frac{3}{4}$ inches apart on the map. What is the real distance?

9. Tim estimates that $4.9 \times 21 \times 0.48$ is about 50. Find the exact product. Is his estimate reasonable?

10. A $1,200 laptop's price drops 25%, and then it drops another $90. The final price is what percent of the original price?