ALBERT

Name _____ Date _____

Two-Step Word Problems Worksheet

Grade 3 · Common Core 3.OA.D.8

> Solve two-step word problems using the four operations. Represent these problems using equations with a letter standing for the unknown quantity. Assess the reasonableness of answers using mental computation and estimation strategies including rounding.

Practice

Builds the skill step by step.

1. Ana has 3 boxes with 6 crayons in each box. Then she gets 5 more crayons. How many crayons does she have now?

2. Ben has 20 cards. He gives away 4 cards. Then he puts the rest into 4 equal piles. How many cards are in each pile?

3. There are 4 bags with 5 apples in each bag. Then 3 apples are eaten. Which equation finds a, the number of apples left?

   A. $4 \times 5 - 3 = a$

   B. $4 + 5 - 3 = a$

   C. $4 \times 5 + 3 = a$

   D. $4 \times (5 - 3) = a$

4. A book costs 7 dollars. Mia buys 2 books and pays with 20 dollars. How much change does she get?

5. A class has 15 boys and 13 girls. They make teams of 4. How many teams are there?

6. Solve: $5 \times 6 + 8 = n$

7. Leo reads 8 pages each day for 5 days. His book has 50 pages. How many pages does he have left to read?

8. Sam has 47 stickers and buys 38 more. Round each number to the nearest ten to estimate. About how many stickers does he have?

   A. 70

   B. 80

   C. 90

   D. 100

9. There are 12 cookies on each of 3 trays. Then 10 cookies are eaten. How many cookies are left?

10. Solve: $30 - 2 \times 7 = n$

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On Level

Grade-level practice.

1. A teacher splits 24 students into 4 equal groups. Then 2 students leave one of the groups. How many students are in that group now?

2. Ty buys 3 packs with 8 pencils in each pack. He gives 9 pencils to friends. Write an equation with p for the pencils he has left, and solve it.

3. A farmer has 36 eggs. She puts them in cartons of 6. She sells each carton for 3 dollars. How much money does she get for all of the cartons?

4. Which is the best estimate for 296 + 412? Round each number to the nearest hundred.

   A. 500

   B. 600

   C. 700

   D. 800

5. Jada has 45 dollars. She buys 3 games that cost 9 dollars each. How much money does she have left?

6. Solve: m = 64 ÷ 8 + 17

7. A room has 6 rows of chairs with 7 chairs in each row. People are sitting in 15 of the chairs. How many chairs are empty?

8. Kai says 58 + 29 − 30 = 87. Round to the nearest ten to check. Is his answer reasonable?

   A. Yes. 58 + 29 = 87.

   B. No. About 60 + 30 − 30 = 60, so the answer should be close to 60.

   C. No. The answer should be close to 120.

   D. Yes. 87 is close to 90.

9. Mom buys 2 bags of apples with 8 apples in each bag. She also buys 1 bag of 12 oranges. How many pieces of fruit does she buy?

10. Lena has 63 beads. She uses 7 beads to make each bracelet. She makes 5 bracelets. How many beads does she have left?

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Challenge

Multi-step and word problems that stretch it.

1. Movie tickets cost 8 dollars for each kid and 10 dollars for each adult. How much do tickets cost for 2 adults and 3 kids?

2. A baker made 96 muffins. She sold 48 of them. Then she put the rest in boxes of 6. How many boxes did she fill?

3. Zoe has 5 packs of cards with 6 cards in each pack. She loses 8 cards. Write an equation with a letter for the unknown, then find how many cards she has.

4. A farm has 4 dogs and 3 chickens. Which equation finds t, the total number of legs?

   A. $4 \times 4 + 3 \times 2 = t$

   B. $4 + 3 = t$

   C. $(4 + 3) \times 4 = t$

   D. $4 \times 3 + 2 = t$

5. Estimate $382 - 197$ by rounding each number to the nearest hundred first.

6. Pia had some money. She spent 15 dollars, and then she earned 8 dollars. Now she has 30 dollars. How much money did she start with?

7. A garden has 7 rows with 6 plants in each row. Mr. Hill adds 2 more rows of 6 plants. Then 10 plants die. How many plants are in the garden now?

8. There are 8 bags with 9 marbles in each bag. Then 20 marbles roll away. Rosa says 152 marbles are left. Which shows her answer is not reasonable?

   A. 8 + 9 = 17, and 17 is less than 152.

   B. 152 is an even number.

   C. She should have added 20 instead.

   D. 8 bags of about 10 is about 80 marbles, so fewer than 80 can be left.

9. Find n: n ÷ 4 = 6 + 3

10. Each van holds 9 people. 50 students and 4 teachers are going on a trip. How many vans do they need?