ALBERT

Name _____ Date _____

Multi-Step Word Problems Worksheet

Grade 4 · Common Core 4.OA.A.3

> Solve multistep word problems posed with whole numbers and having whole-number answers using the four operations, including problems in which remainders must be interpreted. 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. A class has 28 students. They sit in groups of 4. How many groups are there?

2. Mr. Lee buys 3 packs of 12 pencils. He gives away 9 pencils. How many pencils does he have left?

3. 26 students are going on a trip. Each car holds 4 students. How many cars are needed so every student has a seat?

4. Kim has 30 stickers. She puts 4 stickers on each page. How many pages can she fill completely?

5. Jon has 45 cards. He buys 3 packs of 8 cards. Which equation finds c, the number of cards he has now?

   A. $c = 45 + 3 \times 8$

   B. $c = 45 + 3 + 8$

   C. $c = (45 + 3) \times 8$

   D. $c = 45 - 3 \times 8$

6. A baker makes 50 muffins. She puts them in boxes of 6. How many muffins are left over after she fills as many boxes as she can?

7. Ava had $40. She bought 3 books for $8 each. How much money does she have left?

8. Round each number to the nearest hundred to estimate 312 + 489. What is the estimate?

   A. 700

   B. 800

   C. 900

   D. 1,000

9. A farmer has 5 rows of 9 tomato plants and 23 pepper plants. How many plants does he have in all?

10. Find n: $n = 6 \times 7 - 15$.

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On Level

Grade-level practice.

1. A school orders 8 boxes of 24 markers. The markers are shared equally among 6 classrooms. How many markers does each classroom get?

2. A theater has 215 seats. 4 groups of 38 people come in and each person takes one seat. How many seats are still empty?

3. 150 students are going to a museum. Each bus holds 40 students. How many buses are needed?

4. Maya has 100 beads. Each bracelet uses 12 beads. How many bracelets can she make, and how many beads will be left over?

5. Lucas has 3 packs of 25 cards. He gives 18 cards to his brother. Which equation finds b, the number of cards Lucas has left?

   A. $b = 3 \times 25 - 18$

   B. $b = 3 + 25 - 18$

   C. $b = 3 \times (25 - 18)$

   D. $b = 18 - 3 \times 25$

6. Mia reads 35 pages each day for 6 days. Her book has 280 pages. How many pages does she still have to read?

7. A store sold 198 shirts on Monday and 403 shirts on Tuesday. Ben says the store sold 1,001 shirts in all. Which estimate shows that his answer is not reasonable?

   A. 200 + 500 = 700, so 1,001 is too big.

   B. 100 + 400 = 500, so 1,001 is too big.

   C. 200 + 400 = 600, so 1,001 is much too big.

   D. 200 + 400 = 600, so 1,001 is reasonable.

8. Tickets cost $7 each. Ms. Ruiz has $60. What is the greatest number of tickets she can buy?

9. A pet store has 4 tanks with 16 fish in each. The fish are all moved to new tanks that hold 10 fish each. How many new tanks are needed?

10. Paul had 120 cards. He gave 3 friends 15 cards each. Then he sorted the rest equally into 5 boxes. How many cards are in each box?

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Challenge

Multi-step and word problems that stretch it.

1. A school has 6 classes of 27 students and 4 classes of 25 students. Every student gets one water bottle. Bottles come in cases of 24. How many cases must the school buy?

2. Rosa earns $9 an hour. She works 7 hours on Saturday and 5 hours on Sunday. She wants a bike that costs $125. How much more money does she need?

3. Ella has 87 photos. Each album page holds 6 photos. Which statement is correct?

   A. She needs 13 pages.

   B. She fills 15 pages and has 3 photos left over.

   C. She fills 14 pages and needs a 15th page for the last 3 photos.

   D. She needs exactly 14 pages, with no photos left over.

4. A garden has 9 rows of 14 carrots. Rabbits eat 38 carrots. The rest are put into bags of 8. How many full bags are there?

5. A bakery makes 245 rolls. It packs them in bags of 6 and sells each full bag for $4. Leftover rolls are not sold. How much money does the bakery make if it sells every full bag?

6. Jamie estimates $4 \times 293 + 512$ by first rounding 293 and 512 to the nearest hundred. What is her estimate?

   A. 1,600

   B. 1,684

   C. 1,700

   D. 1,800

7. A van rental costs $45 plus $12 for each hour. Lena pays $105 in all. For how many hours did she rent the van?

8. A camp has 58 campers. Each tent sleeps 4 campers, and the camp uses as few tents as possible. Each tent needs 2 lanterns. How many lanterns are needed?

9. Problem: "Eight boxes have 125 nails each. 340 nails are used. How many nails are left?" Theo's answer is 1,340. Which is the best reason his answer cannot be right?

   A. He should have divided 125 by 8.

   B. The answer must be less than 125.

   C. 1,340 is an even number.

   D. 8×125 is 1,000 nails, and some are used, so fewer than 1,000 must be left.

10. Ribbon comes in rolls of 50 inches. Each bow uses 7 inches. A bow cannot use ribbon from two different rolls. How many bows can be made from 3 rolls?