LESSON MAKER PRO

Metric Mission Math

Solve one-step problems with mass and volume.

GRADE 3 · 3.M.A.19.a

3.M.A.19.a "Use the four operations to solve one-step word problems involving masses or volumes given in the same metric units."

NAME _____ DATE _____

CHOOSE AN OPERATION

When amounts use the same unit, think about what the question asks. Add to find a total, subtract to find what is left or the difference, multiply equal groups, or divide a total into equal groups.

WORKED EXAMPLE

A pitcher has 42 mL of juice. The juice is poured equally into 6 cups. How much juice is in each cup?

1. Divide the total by the number of cups: 42 / 6 = 7.
2. Write the unit for one cup: 7 mL.

Answer: 7 mL

PRACTICE 6 problems

1 A bag holds 18 g of red beads and 25 g of blue beads. What is the total mass of the beads?

ANSWER _____

2 A bottle holds 80 mL of paint. You use 35 mL. How much paint is left?

ANSWER _____

3 There are 5 bags of pet food. Each bag has a mass of 8 kg. What is their total mass?

ANSWER _____

4 You pour 64 mL of water equally into 8 small cups. How much water goes in each cup?

ANSWER _____

5 One apple has a mass of 92 g. Another has a mass of 67 g. How much heavier is the first apple?

ANSWER _____

6 You fill 3 water bottles with 200 mL each. How much water is in the bottles altogether?

ANSWER _____

APPLY IT Show your work

1 Ari makes a mini sculpture with 125 g of blue clay and 85 g of yellow clay. What is the total mass of clay Ari uses?

WORK SPACE

ANSWER _____

2 At a bubble party, a bottle holds 72 mL of bubble mix. Each small cup gets 9 mL. How many small cups can be filled?

WORK SPACE

ANSWER _____

CHALLENGE One step up

A craft club has 88 g of beads. Each bracelet uses 11 g of beads. How many bracelets can the club make? Explain how multiplication checks your answer.

WORK SPACE AND ANSWER

ANSWER KEY

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PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	A bag holds 18 g of red beads and 25 g of blue beads. What is the total mass of the beads?	**43 g**
2	A bottle holds 80 mL of paint. You use 35 mL. How much paint is left?	**45 mL**
3	There are 5 bags of pet food. Each bag has a mass of 8 kg. What is their total mass?	**40 kg**
4	You pour 64 mL of water equally into 8 small cups. How much water goes in each cup?	**8 mL**
5	One apple has a mass of 92 g. Another has a mass of 67 g. How much heavier is the first apple?	**25 g**
6	You fill 3 water bottles with 200 mL each. How much water is in the bottles altogether?	**600 mL**

PART 2 · APPLY IT

1. **210 g** Add the masses: 125 + 85 = 210 g.
2. **8 cups** Divide the total amount by the amount in each cup: 72 / 9 = 8.

CHALLENGE

8 bracelets. Since 11 × 8 = 88, eight bracelets use all 88 g of beads.

Accept equivalent calculations with the correct units. For the challenge, the explanation should show that 8 groups of 11 g make 88 g.