LESSON MAKER PRO

# Mission Math Mix

*Estimate, solve, and check each mission.*

**GRADE 5 · 5.CE.1.b.i**

**5.CE.1.b.i** "Represent, solve, and justify solutions to single-step and multistep contextual problems by applying strategies (e.g., estimation, properties of addition and multiplication) and algorithms, including the standard algorithm..."

NAME _____ DATE _____

### PLAN, SOLVE, CHECK

Estimate first so you can tell whether your answer makes sense. Solve one operation at a time, using a standard algorithm when it helps. Check by using the inverse operation or by comparing your answer to your estimate.

### WORKED EXAMPLE

Find 248 × 36.

1. Estimate: 250 × 40 = 10,000.
2. Multiply ones: 248 × 6 = 1,488.
3. Multiply tens: 248 × 30 = 7,440.
4. Add: 1,488 + 7,440 = 8,928.

**Answer: 8,928**

## PRACTICE 6 problems

**1** 4,786 + 3,459 =

**ANSWER** _____

**2** 9,002 - 4,687 =

**ANSWER** _____

**3** 127 × 54 =

**ANSWER** _____

**4** 8,736 ÷ 24 =

**ANSWER** _____

**5** 6,305 ÷ 35 =

**ANSWER** _____

**6** (6,420 - 1,875) + 2,609 =

**ANSWER** _____

## APPLY IT Show your work

**1** The game design club has 27 sticker sheets with 32 stickers on each sheet. Club members give away 158 stickers at a school event. How many stickers are left?

WORK SPACE

**ANSWER** _____

**2** A robotics team has 4,536 screws. The team uses 128 screws to build a robot, then shares the rest equally among 8 repair kits. How many screws go in each repair kit?

WORK SPACE

**ANSWER** _____

## CHALLENGE One step up

A video club has 2,184 votes to divide equally among 7 finalist videos. Each finalist then receives 46 bonus votes. How many votes does each finalist have? Explain how an estimate helps you check your answer.

WORK SPACE AND ANSWER

**ANSWER KEY**

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## PART 1 · PRACTICE

| # | PROBLEM | ANSWER |
|---|---|---|
| 1 | 4,786 + 3,459 = | **8,245** |
| 2 | 9,002 - 4,687 = | **4,315** |
| 3 | 127 × 54 = | **6,858** |
| 4 | 8,736 ÷ 24 = | **364** |
| 5 | 6,305 ÷ 35 = | **180 R5** |
| 6 | (6,420 - 1,875) + 2,609 = | **7,154** |

## PART 2 · APPLY IT

1. **706 stickers** Multiply 27 × 32 to find 864 stickers. Subtract 158 from 864 to get 706.
2. **551 screws** Subtract 128 from 4,536 to get 4,408 screws. Divide 4,408 by 8 to get 551.

## CHALLENGE

**358 votes each. An estimate is 2,100 ÷ 7 + 50 = 350, so 358 is reasonable. Exactly, 2,184 ÷ 7 = 312 and 312 + 46 = 358.**

Accept standard algorithms, place-value strategies, or equivalent correct methods. For the challenge, accept any reasonable estimate and an explanation showing that 358 is close to it.