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\*Answers and/or discussion are included in the lesson.

TG • Grade 4 • Unit 12 • Lesson 2 • Answer Key

# Student Guide

## Questions 1–10 (SG pp. 531–533)

- **I. A.** 3; 30; 300; 3000; 30,000
  - **B.** 3; 30; 300; 3000; 30,000
  - **C.** 4; 40; 400; 4000; 40,000
  - **D.** 8; 80; 800; 8000; 80,000
- **2. A.** 2; 20; 2; 200; 20
  - **B.** 9; 90; 9; 900; 90
  - **C.** 6; 60; 6; 600; 60
  - **D.** 90; 90; 9; 900; 90
- **3.\*** Answers will vary. See Figure 4 in the lesson.
- **4.**  $250 \div 5 = 50$  computers
- **5.**  $6000 \div 300 = 20$  pages
- **6.**  $240 \div 60 = 4$  hours
- **7. A.**  $420 \div 70 = 6$  balloons
  - **B.**  $8 \times 70 = 560$  people
- **8.** 27 teams; methods will vary.
- **9.** There would still be 27 teams, but there would be 4 extra players left over.
- **10.** Stories and related number sentences will vary. Related multiplication problems and answers are shown.
  - **A.**  $3 \times ? = 112; 37 \text{ R1}$  **B.**  $7 \times ? = 98; 14$  **C.**  $8 \times ? = 89; 11 \text{ R1}$  **D.**  $6 \times ? = 131; 21 \text{ R5}$  **E.**  $5 \times ? = 220; 44$ **F.**  $4 \times ? = 700; 175$

### Answer Key • Lesson 2: Using Mental Math to Divide

#### Student Guide

Homework (SG p. 534)

#### **Questions 1–7**

- **I. A.** 4; 40; 400; 4000
  - **B.** 2; 20; 200; 2000
  - **C.** 3; 30; 300; 3000
  - **D.** 8; 80; 800; 8000
- **2. A.** 1; 1; 10; 100; 1000 **B.** 4; 4; 40; 400; 400 **C.** 7; 7; 70; 700; 70
  - **D.** 6; 6; 60; 600; 60
- **3.** Strategies will vary. Possible response: I know  $28 \div 7 = 4$ . I used that fact to answer the others. Each time I thought of a multiplication problem like  $70 \times ? = 280$ . I know  $4 \times 7 = 28$  and so  $4 \times 70 = 280$ .
- **4.** Possible response:  $180 \div 9 = 20$ , so  $200 \div 9$  is a little more than 20.
- 5. Possible response: \$2100 ÷ 7 = \$300 and \$2800 ÷ 7 = \$400, so each team will get between \$300 and \$400.
- 6. Possible response:  $60 \div 6 = 10$ , so Jessie will have to wait through 10 rides. 80 is 20 more, so  $20 \div 6$  is 3 R2, so she will have to wait through 13 more rides.
- **7. A.** Stories and pictures will vary. Possible solution method:

$$\underbrace{ \begin{array}{c} \times 9 = 378 \\ 4 \times 9 = 36 \\ 42 \\ 40 \\ 2 \\ 9 = 360 \\ 2 \\ 9 = 18 \end{array} }_{378 \div 9 = 42}$$

**B.** Stories and pictures will vary. Possible solution method:

$$110 < \frac{\times 8 = 885}{100 \times 8 = 800} > 880$$
  

$$885 - 880 = 5 \text{ left over}$$
  

$$885 \div 8 = 110 \text{ R } 5$$

Ve CL	e the	ese division p or.	rok	lems mentally.	Ch	eck your answe	rs ı	using a
1.	Α.	8 ÷ 2 80 ÷ 2 800 ÷ 2 8000 ÷ 2	в.	20 ÷ 10 200 ÷ 10 2000 ÷ 10 20,000 ÷ 10	C.	27 ÷ 9 270 ÷ 9 2700 ÷ 9 27,000 ÷ 9	D.	48 ÷ 6 480 ÷ 6 4800 ÷ 6 48,000 ÷ 6
2.	Α.	$\begin{array}{l} 5 \div 5 \\ 50 \div 50 \\ 500 \div 50 \\ 5000 \div 50 \\ 50,000 \div 50 \\ 50,000 \div 50 \end{array}$	В.	$\begin{array}{r} 28 \div 7 \\ 280 \div 70 \\ 2800 \div 70 \\ 28,000 \div 70 \\ 280,000 \div 700 \end{array}$	C	. 42 ÷ 6 420 ÷ 60 4200 ÷ 60 42,000 ÷ 60 420,000 ÷ 6000	<b>D</b> .	$\begin{array}{l} 30 \div 5 \\ 300 \div 50 \\ 3000 \div 50 \\ 30,000 \div 50 \\ 300,000 \div 500 \end{array}$
з.	Sh	ow or tell how	yo w t	u solved the pro	ble	ms in Question 2	В.	If you used a
tin nte	nate	the answers to show how	to	the problems in ou found your a	n Qu	uestions 4–6. W	rite	a number
4.	A ı nir	marching band ne. Estimate at	i ha bou	s 200 members t how many row	. Th s of	e band members band members	s m the	arch in rows of re are.
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