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Solving Problem's Mara's Way (SAB pp. 531–534) Questions 1–8



- **B.** $8 \times 6 = 48$
- **C.** $8 \times 30 = 240$ is like 8 rows of 30 squares in the larger rectangle.
- **D.** Explanations will vary. Possible response: $30 \times 8 = 240$ and 40×8 is 320. 36 is in between 30 and 40 and 288 is in between 240 and 320 so I know it is a reasonable answer.
- 2. A. $28 \\ \times 4 \\ 80 \\ + 32 \\ 4 \\ \times 8 + 32 \\ 4 \\ \times 8 + 4 \\ 4 \\ \times 8 + 4 \\ 4$
 - **B.** $20 \times 4 = 80$
 - **C.** Explanations will vary. Possible response: 4 quarters is $25\phi \times 4 = 100\phi$. 28×4 should be a little more so 112 is reasonable.
- 3. A. 27 $\times 8$ 160 + 56 216 $8 \times 20 + 8 \times 7 = 216$
 - **B.** 8 × 20 = 160
 - **C.** 56 is the same as 7 squares in each of the 8 rows in the smaller rectangle.
 - **D.** Explanations will vary. Possible response: 27 is close to 30. $30 \times 8 = 240.27 \times 8$ should be a little less than 240, so 216 is a reasonable answer.

Answer Key • Lesson 3: Multiplication Models and Strategies

- 4. 36 $30 \times 4 = 120$ and $40 \times 4 = 160$. $\times 4$ So 144 is reasonable because it is between my estimates. + 120144
- **5.** 20 7 $\frac{\times 8}{160} + \frac{\times 8}{56} = 216$

The answer is close to $25 \times 8 = 200$. So 216 is reasonable.

- 6. 72 The answer is close to $70 \times 4 = 280$. $\times 4$ So 288 is reasonable. + 8288
- 7. 40 2 $\frac{\times 5}{200} + \frac{\times 5}{10} = 210$

The answer is close to my estimate of $40 \times 5 = 200$.

8. 64 60 × 7 = 420. That is close to 448. $\frac{\times 7}{28}$ <u>+ 420</u>

448



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