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Home Practice Part 2. Caterpillar to Chrysalis (TG p. 1) Questions 1–2

I. 9 days

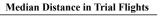
2. 15 days

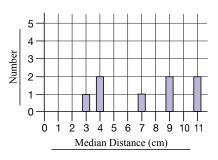
Part 3. Problem Solve with Data (TG p. 2) Questions 1–3

| ١. | Student | Trial 1 | Trial 2 | Trial 3 | Median Distance |
|----|---------|---------|---------|---------|-----------------|
| | Irma | 13 cm | 11 cm | 8 cm | 11 cm |
| | Jacob | 11 cm | 9 cm | 11 cm | 11 cm |
| | Grace | 10 cm | 8 cm | 9 cm | 9 cm |
| | Ming | 4 cm | 3 cm | 5 cm | 4 cm |
| | Romesh | 3 cm | 5 cm | 2 cm | 3 cm |
| | John | 5 cm | 4 cm | 2 cm | 4 cm |
| | Keenya | 9 cm | 8 cm | 9 cm | 9 cm |
| | Kit | 5 cm | 7 cm | 10 cm | 7 cm |

2.

| Median Distance | Tallies | Number |
|--------------------|---------|--------|
| 3 | 1 | 1 |
| 4 5 | | 2 |
| | | |
| 6 | | |
| 7 | 1 | 1 |
| 8 | | |
| 9 | 11 | 2 |
| 10 | | |
| 11 | | 2 |
| 12 | | |
| 13 | | |
| 14 | | |





3. Responses will vary.

Answer Key • Home Practice

Part 4. Addition and Subtraction Practice (TG p. 3) Questions 1–4

| I. A. 800 | B. 405 | C. 5555 |
|----------------|----------------|----------------|
| D. 8738 | E. 3191 | F. 1649 |

- Possible response: I subtracted 3 from 203 and added it to 597.
 200 + 600 = 800
- **3.** Possible response: I could use the all-partials method.

| | 6753 |
|---|------|
| + | 1985 |
| | 7000 |
| | 1600 |
| | 130 |
| + | 8 |
| | 8738 |

4. Possible response: I rounded 614 to 600, 992 to 1000, and 43 to 40.
600 + 100 + 40 = 1640.
1649 is a reasonable answer.

Part 5. Multiplication Strategies (TG p. 4) Questions 1–4

| I. A. 192 | B. 2175 | C. 2728 | D. 1194 |
|----------------|----------------|----------------|----------------|
| E. 800 | F. 1512 | G. 1064 | H. 2232 |
| I. 3403 | J. 5980 | K. 2277 | L. 1875 |

2. Responses will vary. Possible response for Question 1F:

| | 40 | 2 |
|----|------|----|
| 30 | 1200 | 60 |
| 6 | 240 | 12 |

1200 + 240 + 60 + 12 = 1512

3. Responses will vary. Possible response for Question 1B:

$$725 = 700 + 20 + 5$$

$$\times 3 = 2175$$

$$2100 + 60 + 15 = 2175$$

4. Responses will vary. Possible response for Question 1D:

199 is about 200. $200 \times 6 = 1200$. 1200 is a reasonable estimate.

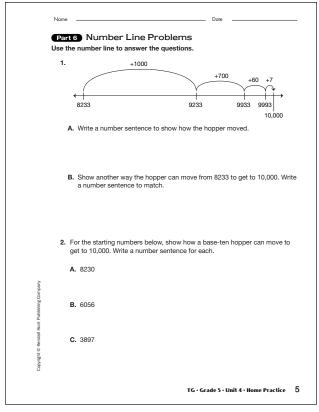
| Use effici quic <i>Addi</i> | pape ent r k est tion s | Addition er and pencil or nethod based imate and look Strategies Mer ference sectio | r mental m on the nur at your a nu and Sul | ath to solve nbers in the nswer to be | these prob problem. F sure it mak | lems. Choos Remember to tes sense. U | o do a se the |
|--------------------------------------|----------------------------------|--|---|---|---|--|------------------|
| 1. | Α. | 203 <u>+ 597</u> | B. | 640 <u>- 235</u> | C. | 3210 <u>+ 2345</u> | |
| | D. | 6753 <u>+ 1985</u> | E. | 7625 <u>- 4434</u> | F. | 614 992 <u>+ 43</u> | |
| 2. | Exp | olain how you ca | an solve Qı | uestion 1A us | ing mental | math. | |
| 3. | Sho | ow a second me | ethod for so | olving Questi | on 1D. | | |
| 4. | Exp | olain your estima | ation strate | gy for Questi | ion 1F. | | |
| | | | | | | | |

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| Name Date | |
|--|---|
| (Part 5) Multiplication Strategies Solve. Estimate to make sure your answers are reasonable. Use the Multidigit Multiplication Strategies Menu in the Student Guide Reference section. | |
| 1. A. $32 \times 6 =$ B. $725 \times 3 =$ C. $682 \times 4 =$ D. $199 \times 6 =$ | |
| E. $25 \times 32 =$ F. $42 \times 36 =$ G. $19 \times 56 =$ H. $72 \times 31 =$ | |
| I. $83 \times 41 =$ J. $92 \times 65 =$ K. $33 \times 69 =$ L. $75 \times 25 =$ | |
| Choose one of the problems above and show how you solve it using the expanded-form method. | Copyri |
| Choose one of the problems above and show how you solve it using the all-partials method. | Copyright © Kendall Hunt Publishing Company |
| Choose one of the problems above and show how you found a reasonable estimate. | lingCompany |
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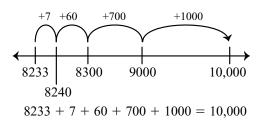
Answer Key • Home Practice



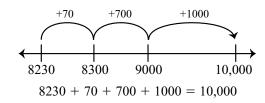
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Part 6. Number Line Problems (TG p. 5) Questions 1–2

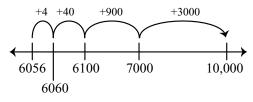
- **I. A.** 8233 + 1000 + 700 + 60 + 7 = 10,000
 - B. Responses will vary.



- **2.** Responses will vary. One possible response is shown for each.
 - Α.

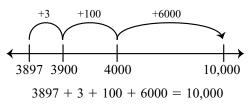


Β.



$$6056 + 4 + 40 + 900 + 3000 = 10,000$$

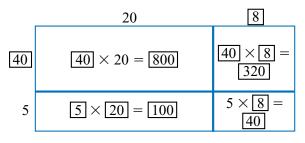
C.



Part 7. Connect Multiplication Strategies (TG p. 6) Ouestions 1–2

| <i>cuostio</i> | | | |
|----------------|-------------|----|----------------------|
| I. A. | 28 | B. | $40 \times 20 = 800$ |
| | $\times 45$ | | $40 \times 8 = 320$ |
| | 800 | | |
| | 320 | | |
| | 100 | | |
| | 40 | | |
| | 1260 | | |
| | | | |

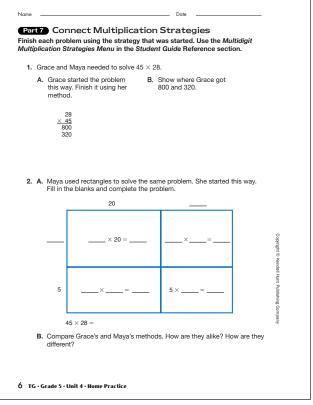
2. A.



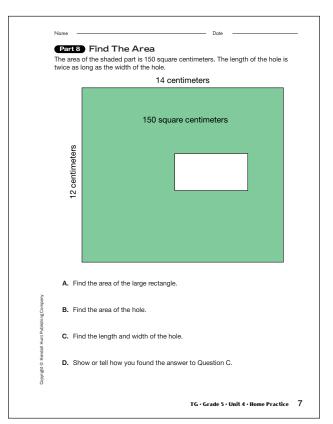
- $45 \times 28 = 800 + 100 + 320 + 40 = 1260$
- **B.** Answer will vary. Both methods use partial products. Maya's method uses rectangles as a tool.

Part 8. Find The Area (TG p. 7) Questions A–D

- A. 168 square centimeters
- B. 18 square centimeters
- **C.** length 6 centimeters; width 3 centimeters
- **D.** Possible response: To find the area of the large rectangle I multiplied 14 cm \times 12 cm = 168 sq cm. Since the shaded part has an area of 150 sq cm, I subtracted 168 150 = 18 sq cm to find the area of the hole. I thought of what two numbers I multiply to equal 18. I could multiply 1 \times 18, 9 \times 2, or 3 \times 6. Since the length is twice as long as the width, the length has to be 6 centimeters and the width 3 centimeters.







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