$\qquad$

## CHAPTER 1 RATIOS AND PROPORTIONAL REASONING

| V | K | F | F | A | A | G | U | Z | N | Q | J | W | E | R | P | L | B | S | M | K | U | 0 | S |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| K | W | U | N | 1 | T | R | A | T | 1 | 0 | G | 0 | Q | 1 | R | T | D | Q | U | 0 | P | 0 | N |
| I | S | 0 | X | B | L | Z | 0 | E | P | 0 | L | S | Z | A | 0 | K | N | U | T | X | T | Z | 0 |
| W | J | L | W | P | K | 1 | N | Q | D | T | T | Y | C | P | P | V | F | 1 | A | B | F | Y | N |
| S | T | C | U | D | 0 | R | P | S | S | 0 | R | C | S | D | 0 | B | X | L | G | 0 | M | F | P |
| $J$ | R | K | M | C | H | $J$ | E | H | 0 | W | L | $J$ | $J$ | E | R | 1 | Q | A | U | 1 | S | 1 | R |
| G | N | 0 | 1 | T | A | 1 | R | A | V | H | D | 0 | Y | R | T | F | U | $N$ | L | J | R | 0 | 0 |
| A | 1 | B | J | R | L | P | 1 | C | N | V | 0 | D | C | E | I | H | A | 0 | E | H | P | 0 | P |
| C | D | K | D | N | U | N | 1 | T | R | A | T | E | Q | D | 0 | E | D | 1 | H | X | N | Y | 0 |
| $0$ | Y | M | Q | D | E | V | T | 1 | B | Z | K | C | U | R | N | Z | R | S | E | Z | Z | B | R |
| M | T | U | N | L | F | 0 | E | P | M | P | H | E | $J$ | 0 | A | G | A | N | X | Q | B | Z | T |
| P | F | T | E | E | S | 0 | N | $J$ | E | M | G | P | F | S | L | V | N | E | R | D | Z | P | 1 |
| L | D | W | V | E | 1 | L | S | U | X | 1 | V | R | R | Q | S | A | T | M | K | P | 0 | S | 0 |
| E | N | D | F | D | X | V | D | B | 0 | V | 1 | T | 0 | 1 | Y | Z | S | 1 | $J$ | F | 1 | K | N |
| $x$ | E | D | Z | 1 | A | D | L | 0 | L | X | P | Z | H | Z | 1 | D | S | D | Z | S | R | Z | A |
| F | W | V | Z | B | X | L | T | P | X | L | $P$ | C | U | B | B | C | Q | W | Y | Y | S | G | L |
| R | F | H | B | C | M | A | M | R | C | Q | Y | A | X | 1 | S | S | S | L | E | S | K | D | U |
| A | 1 | M | P | R | 0 | P | E | R | F | R | A | C | T | 1 | 0 | N | A | G | B | T | D | E | T |
| C | V | U | P | C | 0 | X | G | R | X | C | 0 | 0 | R | D | 1 | N | A | T | E | D | A | 1 | B |
| T | E | R | A | T | E | 0 | F | C | H | A | N | G | E | Q | A | R | C | W | N | D | 0 | R | R |
| 1 | B | F | 1 | 0 | C | E | T | A | N | 1 | D | R | 0 | 0 | C | Y | F | R | K | F | U | V | W |
| 0 | K | U | W | K | J | $J$ | H | U | $J$ | N | 0 | 1 | T | C | A | R | F | E | L | P | M | 1 | S |
| N | E | Q | U | 1 | V | A | L | E | N | T | R | A | T | 1 | 0 | S | F | E | $V$ | X | C | H | H |
| R | D | S | W | M | N | V | U | B | P | N | Y | N | P | E | W | C | C | W | D | Y | B | F |  |

improper fraction equivalent ratios complex fraction nonproportional simple fraction rate of change cross products y-coordinate

| x-coordinate | ordered pair | proportional | dimensiona |
| :--- | :--- | :--- | :--- |
| unit ratio | unit rate | quadrants | variation |
| analysis | $y$-axis | $x$-axis | origin |

