

Lesson 8

- 1) sum, how many, total, in all
- 2) difference, how many more, have left
- 3) times, product, fraction of
- 4) how many for each, how many parts
- 5) $2 + 5 = 7$
 $7 - 1 = 6$
 $(2 + 5) - 1 = 6$ pencils
- 6) $K + M + Q$
- 7) $X + Y$ total treats
 $(X + Y) \div Z$ treats per person
- 8) $\frac{1}{3}$ completed, $\frac{2}{3}$ to go
 $\frac{2}{3} \times (A + B)$ or $\frac{2(A + B)}{3}$
 $\frac{2A + 2B}{3}$ is also correct

Lesson 9

- 1) $\frac{A}{A} + \frac{B}{A} = \frac{A + B}{A}$
- 2) $\frac{Y}{Z} - \frac{X}{Z} = \frac{Y - X}{Z}$
- 3) $\frac{A + B}{E} + \frac{C}{E} = \frac{A + B + C}{E}$
- 4) $\frac{A}{X} + \frac{B}{Y} = \frac{AY}{XY} + \frac{BX}{XY} = \frac{AY + BX}{XY}$
- 5) $\frac{EF}{T} - \frac{G}{S} = \frac{EFS}{TS} - \frac{GT}{TS} = \frac{EFS - GT}{TS}$
- 6) $\frac{X}{RS} + \frac{X}{QS} = \frac{XQ}{QRS} + \frac{XR}{QRS} = \frac{XQ + XR}{QRS}$
- 7) $\frac{A}{B} \times \frac{C}{D} = \frac{AC}{BD}$
- 8) $\frac{X}{R} \times \frac{X}{S} = \frac{X^2}{RS}$
- 9) $\frac{DF}{YZ} \times \frac{Y}{D} = \frac{DFY}{YZD} = \frac{F}{Z}$
- 10) $\frac{A}{B} + \frac{A}{B} = \frac{A + A}{B + B} = \frac{1}{1} = 1$
- 11) $\frac{Q}{Z} + \frac{YZ}{T} = \frac{QT}{ZT} + \frac{YZ^2}{ZT} = \frac{QT + YZ^2}{ZT + ZT} = \frac{QT}{YZ^2}$
- 12) $\frac{X}{R} + \frac{R}{X} = \frac{X^2}{RX} + \frac{R^2}{RX} = \frac{X^2 + R^2}{RX + RX} = \frac{X^2}{R^2}$
- 13) $\frac{Q}{X} + \frac{R}{P} = \frac{QP}{XP} + \frac{XR}{XP} = \frac{QP + XR}{XP}$
- 14) $\frac{DT}{S} \times \frac{C}{D} = \frac{DTC}{SD} = \frac{TC}{S}$
- 15) $\frac{L}{B} + \frac{U}{B} = \frac{L + U}{B + B} = \frac{L + U}{1} = \frac{L}{U}$
- 16) $X = A - Y$
- 17) $Y = A - X$
- 18) $5X - 4X = B + B$
 $X = B + B$
 $X = 2B$

