

⑩ $9/2xy$ $\frac{9}{2xy}$ 1 term

⑭ the ^{multi.} product of 3 & the ^{add.} sum of 2 & 4,
divided by 9

$$3(2+4) \div 9$$

$$3 \cdot 6 \div 9$$

$$18 \div 9$$

$$\textcircled{2}$$

⑮ the square of the ^{multi.} product of 3 & 4,
divided by 6 more than 10

$$(3 \cdot 4)^2 \div 6 + 10$$

$$12^2 \div 6 + 10$$

$$144 \div 6 + 10$$

$$24 + 10 = \boxed{34}$$

(17) the fourth ^{exponent} power of a number, times 2,
divided by 8

$$n^4 \cdot 2 \div 8 \quad \text{or} \quad \frac{n^4 \cdot 2}{8}$$

$$2^4 \cdot 2 \div 8$$

2 · 2 · 2 · 2

$$16 \cdot 2 \div 8$$

$$32 \div 8$$

4

(18) the quotient ^{division} of a number cubed ^{exponent} ÷ 2

$$n^3 \div 2$$

$$2^3 \div 2$$

2 · 2 · 2

$$8 \div 2$$

4

(19) $6a + 5 + 3a$ when $a = 1.5$

$$9a + 5$$

$$9(1.5) + 5$$

$$13.5 + 5$$

$$18.5$$

$$\begin{array}{r} 4 \\ 1.5 \\ \times 9 \\ \hline 13.5 \end{array}$$

$$\begin{array}{r} 13.5 \\ + 5.0 \\ \hline 18.5 \end{array}$$

(20) $1m^2 + 4m^2 + 2$ when $m = 0$

$$5m^2 + 2$$

$$5 \cdot (0)^2 + 2$$

$$5 \cdot 0 + 2$$

$$0 + 2 = 2$$

(30) $3(p+2) - 1$
 $3p + 6 - 1 = 3p + 5$
 $2p + 3(p+1)$
 $2p + 3p + 3 = 5p + 3$
 $2(p+2) - 3 + 3p$
 $2p + 4 - 3 + 3p = 5p + 1$
 $5(2+p) - 2p - 9$
 $10 + 5p - 2p - 9$
 $3p + 1$

Arrows indicate the following mappings:
 - Red arrow from $3(p+2) - 1$ to $3p + 5$
 - Green arrow from $2p + 3(p+1)$ to $5p + 3$
 - Blue arrow from $2(p+2) - 3 + 3p$ to $5p + 1$
 - Black arrow from $5(2+p) - 2p - 9$ to $3p + 1$

(31) $5x + 8y + 12x + 6y$
 $17x + 14y$

(33) $l = 15\text{cm}$ $w = 9\text{cm}$

Perimeter: $P = 2l + 2w$
 $= 2(15) + 2(9)$
 $= 30 + 18$

$P = 48\text{cm}$

Area: $A = l \cdot w = (15) \cdot 9 = 135\text{cm}^2$