

Algebra More Practice

1. Express each of the following as an expression.

(a) Subtract 5 from $2y$.

(b) Multiply 19 by $2f$.

(c) 35 more than y .

(d) $17p$ less than 100.

(e) Divide $3d$ by 17.

(f) Thrice of $14y$.

(g) Subtract $7p$ from 15.

(h) Half of $120w$.

SUBSTITUTION

2. Find the value of each of the following when $p = 2$

(a) $6p - 10$

(b) $\frac{p + 5}{14}$

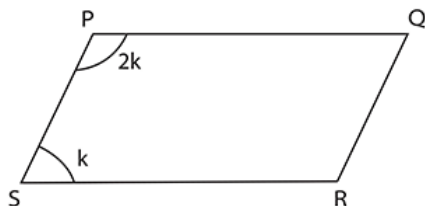
(c) $p + 30$

(d) $\frac{4p + 1}{3}$

(e) $3p - 5$

(f) $\frac{3p - 5}{6}$

3. Find the value of k .



Ans: _____

4. Jane had s kg of sugar. She used 200g of the sugar to make jelly.
How much sugar did she have left? *Express your answer in kg.*

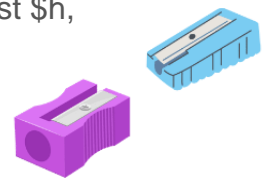
Ans: _____

5. James has w paperclips. Sudi has twice as many paperclips as James.
Randy has 25 more paperclips than the total number of paperclips James and Sudi have.
Express the total number of paperclips the three children have in terms of w .



Ans: _____

6. 2 sharpeners and 5 books cost \$15. If 1 sharpener and 1 book cost \$ h ,
find the cost of 1 book. *Express your answer in dollars.*



Ans: _____

Algebra More Practice (Solution)

1. Express each of the following as an expression.

(a) $2y - 5$

(b) $38f$

(c) $35 + y$

(d) $100 - 17p$

(e) $\frac{3d}{17}$

(f) $42y$

(g) $15 - 7p$

(h) $60w$

2. **SUBSTITUTION**

(a) $(6 \times 2) - 10 = 2$

(b) $\frac{2 + 5}{14} = \frac{1}{2}$

(c) $2 + 30 = 32$

(d) $\frac{4 \times 2 + 1}{3} = \frac{9}{3} = 3$

(e) $(3 \times 2) - 5 = 1$

(f) $\frac{3 \times 2 - 5}{6} = \frac{1}{6}$

3. $3k = 180$

$1k = 60$ (Ans)

(when value is asked, units is not required)

4. Conversion $s \text{ kg} = 1000s \text{ g}$ OR $200 \text{ g} = 0.2 \text{ kg}$

Left = $(1000s - 200) \text{ g}$ (Ans)

Left = $(s - 0.2) \text{ kg}$ (Ans)

5. James = w

Sudi = $2w$

Randy = $25 + (2w + w) = 25 + 3w$

Total = $25 + 6w$ (Ans)

6. $1 \text{ S} + 1 \text{ B} = \h

$2\text{S} + 2\text{B} = \$2h$

$2\text{S} + 5\text{B} = \15

$3\text{B} = \$ (15 - 2h)$

$1\text{B} = \$ \left(\frac{15 - 2h}{3} \right)$ (Ans)

