



Use variables to represent unknown quantities

- 1 What does this algebra term mean?

 $2y$

A	$2 - y$	B	$2 \times y$
C	2^y	D	$\frac{2}{y}$
E	$\frac{y}{2}$	F	$2 + y$

- 2 m divided by five

A	$\frac{5}{m}$	B	$\frac{m}{5}$
C	$m - 5$	D	$5m$

- 3 What does this equation become when $y=2$, $d=-6$

 $2y - 7d$

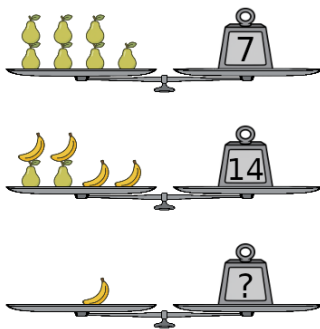
A	$2 \times 2 - 7 \times (-6)$
B	$2 - 2 - 7 - (-6)$

- 4 What is the value of this equation when $r=3$, $n=5$

 $3r - 6n$

A	177	B	81
C	-23	D	$-22r$
E	-21	F	$3r - -21$

- 5 Which equations represent what these scales are showing



A	$9p = 7$ $p + 4b = 14$ $b + p = ?$	B	$7p = 7$ $2p + 4b = 14$ $b = ?$
C	$12p = 7$ $p + 4b = 14$ $b + 2p = ?$	D	$12p + b = 7$ $p + 3b = 14$ $2p = ?$

- 6 What is the value of this equation when $r=2$, $n=5$

 $2r + 6n$

A	$34r$	B	-8
C	$2r - 34$	D	16
E	34	F	38

- 7 What is the value of this equation when $x=5$, $b=4$

 $5x + 4b$

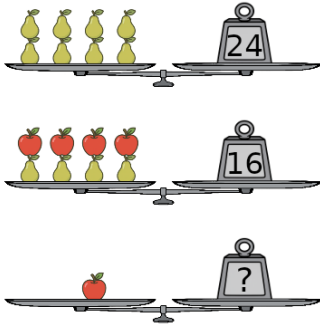
A	41	B	61
C	625	D	$41x$
E	40	F	141



Use variables to represent unknown quantities

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Which equations represent what these scales are showing



A $9p = 24$
 $7p + 4a = 16$
 $3a + p = ?$

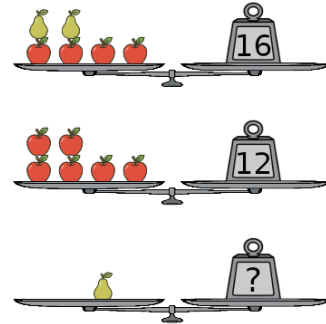
B $9p = 24$
 $7p + 4a = 16$
 $3a = ?$

C $7p = 24$
 $7p + 5a = 16$
 $2a + p = ?$

D $8p = 24$
 $4p + 4a = 16$
 $a = ?$

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Which equations represent what these scales are showing



A $2a = 16$
 $9a + p = 12$
 $5p = ?$

B $4a = 16$
 $9a = 12$
 $6p = ?$

C $4a + 2p = 16$
 $6a = 12$
 $p = ?$

D $4a = 16$
 $9a = 12$
 $4p = ?$

10What is the value of this equation when $n=4$, $d=2$

$$5n - 6d$$

A $5n - 8$

B $4n$

C 8

D 104

E $n^5 + 8$

F 400

12What is the value of this equation when $c=5$, $d=4$

$$6c - 3d$$

A $18c$

B -150

C $c^6 + 18$

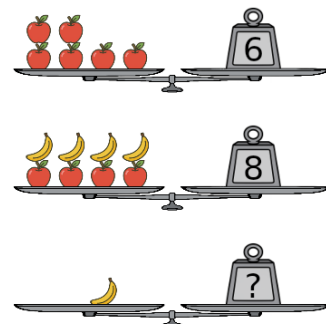
D 18

E 13

F 162

11

Which equations represent what these scales are showing



A $7a = 6$
 $4a + 5b = 8$
 $b = ?$

B $7a = 6$
 $4a + 5b = 8$
 $3b = ?$

C $6a = 6$
 $4a + 4b = 8$
 $b = ?$

D $4a = 6$
 $4a + 3b = 8$
 $2b = ?$