

## Expressions

19 Which expression is equivalent to  $2m\left(\frac{3}{2}m + 1\right) + 3\left(\frac{5}{3}m - 2\right)$ ?

A  $3m^2 + 5m - 1$

B  $\frac{3}{4}m^2 + \frac{23}{9}m - 6$

C  $3m^2 + 7m - 6$

D  $\frac{3}{4}m^2 + \frac{5}{9}m - 1$

47 Which expression is equivalent to  $3c\left(\frac{1}{3}d - 9\right) - 7(c + 1) + d(c + 4)$ ?

A  $2cd - 34c + 4d - 7$

B  $2cd - 7c - 4$

C  $2cd + 34c + 4d + 7$

D  $2cd + 8c + 4$

## Expressions

- 9 In which step below does a mistake first appear in simplifying the expression  $0.5(-12c + 6) - 3(c + 4) + 10(c - 5)$ ?

Step 1:  $-6c + 3 - 3(c + 4) + 10(c - 5)$

Step 2:  $-6c + 3 - 3c - 12 + 10(c - 5)$

Step 3:  $-6c + 3 - 3c - 12 + 10c - 50$

Step 4:  $7c - 41$

- A Step 1
- B Step 2
- C Step 3
- D Step 4