

$$\Rightarrow (15 - 2 + 4) \times 3 - 5 \times (6 + 4 - 3)$$

With expansion:

$$(15 - 2 + 4) \times 3 + (-5) \times (6 + 4 - 3)$$

$$= 15 \times 3 - 2 \times 3 + 4 \times 3 + (-5) \times 6 + (-5) \times 4 + (-5) \times (-3)$$

$$= 45 - 6 + 12 + \cancel{-30} + \cancel{-20} + 15$$

$$= \frac{39 + 12 - 30 - 20 + 15}{16}$$

Without expansion:

$$(15 - 2 + 4) \times 3 + (-5) \times (6 + 4 - 3)$$

$$= 17 \times 3 + (-5) \times 7$$

$$= 51 + (-35)$$

$$= 51 - 35$$

$$= 16 \quad \checkmark$$

$$\Rightarrow (34 - 16 + 4)/4 - 18/(1+2+3)$$

without expansion:

$$\begin{aligned} & (34 - 16 + 4)/4 + (-18)/(1+2+3) \\ = & \frac{22}{4} + \frac{(-18)}{6} \\ & \begin{array}{ccc} 5 & 5.5 & -3 \\ \hline \underline{\underline{9=2}} & & \end{array} \\ = & 2.5 \quad \checkmark \end{aligned}$$

with expansion:

$$\begin{aligned} & (34 - 16 + 4)/4 + (-18)/(1+2+3) \\ = & (34/4) + ((-16)/4 + (4/4) + (-18)/6) \\ = & 8.5 - 4 + 1 - 3 = 2.5 \quad \checkmark \end{aligned}$$

$$\rightarrow 15 \times (16+2-5) - 17 \times (5-2) - (17+1)/2$$

without expansion:

$$\begin{aligned} & 15 \times (16+2-5) - 17 \times (5-2) - (17+1)/2 \\ = & 15 \times 13 - 17 \times 3 - 18/2 \\ = & 195 - 51 - 9 \\ = & 135 \quad \checkmark \end{aligned}$$

with expansion:

$$\begin{aligned} & 15 \times (16+2+(-5)) - 17 \times (5+(-2)) - (17+1)/2 \\ = & (15 \times 16) + (15 \times 2) + (15 \times (-5)) - (17 \times 5) + (-17 \times -2) - 17/2 - 1/2 \\ = & 240 + 30 - 75 - 85 + 34 - 8.5 - 0.5 \\ = & 135 \quad \checkmark \end{aligned}$$