$$a \cdot b = 5 \cdot 2$$
$$= 10$$

$$\Delta(a \cdot b) = |a \cdot b| \sqrt{\left(\frac{\Delta a}{a}\right)^2 + \left(\frac{\Delta b}{b}\right)^2}$$
$$= |10| \sqrt{0.05^2 + 0.25^2}$$
$$= 2.54951$$

$$\therefore a \cdot b = 10 \pm 2.54951$$

$$\sin(d) = \sin(4)$$
$$= -0.7568$$

$$\Delta(\sin(d)) = |\cos(d) \cdot \Delta d|$$
$$= |-0.65364 \cdot 0.7|$$
$$= 0.45755$$

$$\therefore \sin(d) = -0.7568 \pm 0.45755$$

$$c \cdot \sin(d) = 3 \cdot -0.7568$$
$$= -2.27041$$

$$\Delta(c \cdot \sin(d)) = |c \cdot \sin(d)| \sqrt{\left(\frac{\Delta c}{c}\right)^2 + \left(\frac{\Delta \sin(d)}{\sin(d)}\right)^2}$$
$$= |-2.27041| \sqrt{0.04167^2 + 0.60458^2}$$
$$= 1.37591$$

$$\therefore c \cdot \sin(d) = -2.27041 \pm 1.37591$$

$$a \cdot b + c \cdot \sin(d) = 10 + -2.27041$$
$$= 7.72959$$

$$\Delta(a \cdot b + c \cdot \sin(d)) = \sqrt{\Delta(a \cdot b)^2 + \Delta(c \cdot \sin(d))^2}$$
$$= \sqrt{2.54951^2 + 1.37591^2}$$
$$= 2.89709$$

$$\therefore a \cdot b + c \cdot \sin(d) = 7.72959 \pm 2.89709$$

$$a \cdot b + c \cdot \sin(d) = 10 + -2.27041$$
$$= 7.72959$$

$$\Delta(a \cdot b + c \cdot \sin(d)) = \sqrt{\Delta(a \cdot b)^2 + \Delta(c \cdot \sin(d))^2}$$
$$= \sqrt{2.54951^2 + 1.37591^2}$$
$$= 2.89709$$

$$\therefore a \cdot b + c \cdot \sin(d) = 7.72959 \pm 2.89709$$