

Calculating with Upper and Lower Bounds

Given that a is 40 to the nearest 10 and b is 8 correct to the nearest integer:	Given that e is 20 correct to the nearest five and f is 2.5 correct to 1 decimal place:	Given that p is 200 to 1 significant figure and q is 25 to 2 significant figures:	Given that x is 3 to the nearest integer, y is 1.5 to the nearest tenth and z is 12 to 2 significant figures:
(a)	(d)	(g)	(j)
Find the upper and lower bounds of $10a$	Find the upper and lower bounds of $e - f$	Find the upper and lower bounds of \sqrt{p}	Find the upper and lower bounds of $2(x + z - y)$
(b)	(e)	(h)	(k)
Find the upper and lower bounds of $a + b$	Find the upper and lower bounds of $\frac{e}{f}$	Find the upper and lower bounds of $\frac{1000}{pq}$	Find the upper and lower bounds of $\frac{z}{x-y}$
(c)	(f)	(i)	(l)
Find the upper and lower bounds of $a \times b$	Find the upper and lower bounds of e^2	Find the upper and lower bounds of $\sqrt{\frac{1}{p-q}}$	Find the upper and lower bounds of $z - x \times 2^y$