

When Do Sky Divers Use Decimals?

For each exercise, select the axiom illustrated by the given equation. (Each variable represents any real number.) CIRCLE the letter in the appropriate column next to the equation. Write this letter in the box at the bottom of the page that contains the number of that exercise.

	commutative (addition) ↓	commutative (multiplication)	associative (addition) ↓	associative (multiplication)
① $6 \cdot 9 = 9 \cdot 6$	P	T	U	B
② $7 + 15 = 15 + 7$	I	A	S	R
③ $69 + (31 + 23) = (69 + 31) + 23$	G	V	S	L
④ $20 \cdot (5 \cdot 17) = (20 \cdot 5) \cdot 17$	X	O	P	A
⑤ $x + 2.5 = 2.5 + x$	i	H	U	W
⑥ $3(n \cdot 8) = 3(8n)$	C	E	I	L
⑦ $3(8n) = (3 \cdot 8)n$	M	W	E	N
⑧ $11 + (w + 2) = 11 + (2 + w)$	T	V	Y	B
⑨ $11 + (2 + w) = (11 + 2) + w$	I	E	A	L
⑩ $(5x) + 14 = 14 + (5x)$	N	T	F	S
⑪ $(x \cdot 5) + 14 = (5x) + 14$	A	I	O	T
⑫ $\frac{1}{3}(9t) = \left(\frac{1}{3} \cdot 9\right)t$	E	A	N	O
⑬ $7x + (4x + 1) = (7x + 4x) + 1$	A	P	U	L
⑭ $3(m + 10) = 3(10 + m)$	T	S	N	R
⑮ $3 + (m \cdot 10) = 3 + (10m)$	E	H	I	A
⑯ $8 + (5 + k) = (8 + 5) + k$	P	K	S	H
⑰ $(12a)\frac{1}{6} = (a \cdot 12)\frac{1}{6}$	S	T	B	W
⑱ $(a \cdot 12)\frac{1}{6} = a\left(12 \cdot \frac{1}{6}\right)$	B	Y	E	N

2	10	4	17	6	18	8	15	3	16	11	1	13	9	14	5	12	7
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