Chapter 11: Calculation Rules (Multiplication)

Year 5

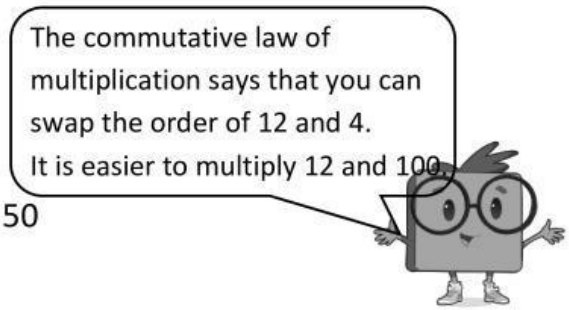
Worksheet B: Use the Laws of Arithmetic to Simplify Calculations

Use the commutative law of multiplication to help you multiply.

(a) $4 \times 12 \times 25 = 12 \times \underline{4 \times 25}$

$= 12 \times$ _____

$=$ _____



(b) $2 \times 57 \times 50 = 57 \times$ _____ $\times 50$

$= 57 \times$ _____

$=$ _____

(c) $25 \times 23 \times 4 = 25 \times$ _____ $\times$ _____

$=$ _____ $\times$ _____

$=$ _____

(d) $5 \times 175 \times 2$

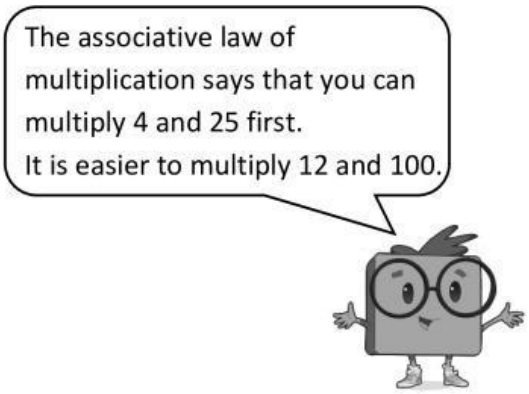
(e) $4 \times 87 \times 25$

5. Use the associative law of multiplication to help you multiply.

(a) $48 \times 25 = 12 \times 4 \times 25$

$= 12 \times$ _____

$=$ _____



(b) $45 \times 20 = 9 \times$ _____ $\times 20$

$= 9 \times$ _____

$=$ _____

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(c) $28 \times 25 =$ _____ × _____ × 25

= _____ × _____

= _____

(d) $28 \times 4 \times 25$

(e) 44×25

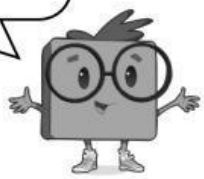
6. Use the distributive law of multiplication to help you multiply

(a) $75 \times 17 = 75 \times 10 + 75 \times 7$

= 750 + 525

= _____

17 = 10 + 7
It is easier to multiply 75 and 10, and 75 and 7. Then, add them together.



(b) $59 \times 15 = 59 \times 10 + 59 \times 5$

= _____ + _____

= _____

(c) $71 \times 16 = 71 \times$ _____ + 71 × _____

= _____ + _____

= _____

(d) $150 \times 15 = 150 \times$ _____ + 150 × _____

= _____ + _____

= _____

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