THIRD SPACE
LEARNING

Properties of Equality Check for Understanding

A 10 question retrieval quiz for students in grades 3 to 6.

Grades 3 to 6

Questions

Name: ………………………………………….   Class: ………………………………………….

Date: ………………………………………….   Score: ………………………………………….

1 Use the associative property to fill in the missing numbers.

$5 + (12 + 8) = ($ 〔   〕 $) + ($ 〔   〕 $) + 8$

2 Use the associative property to fill in the missing numbers.

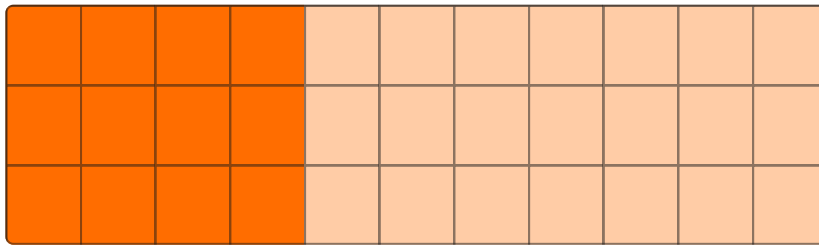$(9 \times 6) \times 5 = 9 \times ($ 〔   〕 $\times$ 〔   〕 $)$

3 Use the commutative property to fill in the missing numbers.

$25 + 12 + 35 = $ 〔   〕 $+$ 〔   〕 $+ 12$

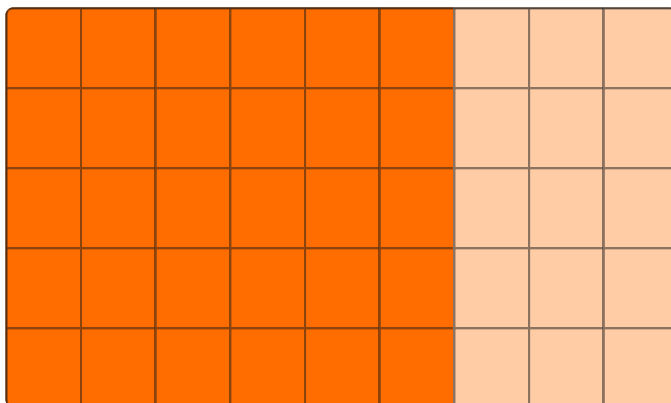**4** Use the commutative property to fill in the missing numbers.

$2 \times 7 \times 4 = 2 \times $ 〔   〕 $\times$ 〔   〕

5 Use the distributive property to fill in the missing numbers.

$3 \times (4 + 7) =$ ☐ $\times$ ☐ $+$ ☐ $\times$ ☐

6 Use the distributive property to fill in the missing numbers.

$5 \times (6 + 3) =$ ☐ $\times$ ☐ $+$ ☐ $\times$ ☐

7 Solve 111 - (6 × 13) + 9

Answer

☐

8 Solve $4 + [12 \div (3 - 1.5)] \times 3$

Answer

9 Solve $6^3 + 16 \div 5 \times 6 - 12.4$

Answer

10 Solve $[(4 + 5)^2 - 4 \times 19] \div \dfrac{1}{3}$

Answer

Answers

Question number	Question	Answers	Standard
1	Use the associative property to fill in the missing numbers. 5 + (12 + 8) = (? + ?) + 8	5 + (12 + 8) = (5 + 12) + 8	3.OA.B.5
2	Use the associative property to fill in the missing numbers. (9 × 6) × 5 = 9 × (? × ?)	(9 × 6) × 5 = 9 × (6 × 5)	3.OA.B.5
3	Use the commutative property to fill in the missing numbers. 25 + 12 + 35 = ? + ? + 12	25 + 12 + 35 = 25 + 35 + 12	3.OA.B.5
4	Use the commutative property to fill in the missing numbers. 2 × 7 × 4 = 2 × ? × ?	2 × 7 × 4 = 2 × 4 × 7	3.OA.B.5
5	Use the distributive property to fill in the missing numbers. 3 × (4 + 7) = ? × ? + ? × ?	3 × (4 + 7) = 3 × 4 + 3 × 7	3.OA.B.5
6	Use the distributive property to fill in the missing numbers. 5 × (6 + 3) = ? × ? + ? × ?	5 × (6 + 3) = 5 × 6 + 5 ×	3.OA.B.5
7	Use the distributive property to fill in the missing numbers. 5 × (6 + 3) = ? × ? + ? × ?	111 - (6 × 13) + 9 = 111 - 78 + 9 = 33 + 9 = 42	5.OA.1

Answers

Question number	Question	Answers	Standard
8	Solve 4 + [12 ÷ (3 - 1.5)] × 3	4 + [12 ÷ (3 - 1.5)] × 3 = 4 + [12 ÷ 1.5] × 3 = 4 + 8 × 3 = 4 + 24 = 28	5.OA.1
9	Solve 6^3 + 16 ÷ 5 × 6 - 12.4	6^3 + 16 ÷ 5 × 6 - 12.4 = 216 + 16 ÷ 5 × 6 - 12.4 = 216 + 3.2 × 6 - 12.4 = 216 + 19.2 - 12.4 = 235.2 - 12.4 =222.8	6.EE.A.1
10	Solve $[(4 + 5)^2 - 4 \times 35] \div \frac{1}{3}$	$[(4 + 5)^2 - 4 \times 19] \div \frac{1}{3}$ $= [9^2 - 4 \times 19] \div \frac{1}{3}$ $= [81 - 4 \times 19] \div \frac{1}{3}$ $= [81 - 76] \div \frac{1}{3}$ $= 5 \div \frac{1}{3}$ $= 15$	6.EE.A.1

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