

Name:
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Associative Property - Addition

Apply the Associative Property to Complete the Missing Values

$$1) 3 + (\underline{5} + 2) = (5 + \underline{3}) + 2$$

$$2) 3 + (5 + \underline{7}) = \underline{3} + (7 + 5)$$

$$3) (3 + 7) + \underline{6} = (\underline{7} + 6) + 3$$

$$4) (\underline{8} + 4) + 5 = 4 + (8 + \underline{5})$$

$$5) 9 + (7 + \underline{4}) = (9 + 4) + \underline{7}$$

$$6) 4 + (5 + \underline{6}) = (6 + 5) + \underline{4}$$

$$7) (7 + \underline{3}) + 2 = (2 + 3) + \underline{7}$$

$$8) 8 + (\underline{2} + 7) = \underline{7} + (2 + 8)$$

$$9) (6 + \underline{8}) + 5 = 5 + (8 + \underline{6})$$

$$10) 2 + (\underline{8} + 5) = (8 + 2) + \underline{5}$$

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Apply the Associative Property to Complete the Missing Values

$$1) 66 + (58 + \underline{41}) = (41 + 58) + \underline{66}$$

$$2) (52 + \underline{80}) + 22 = 80 + (\underline{22} + 52)$$

$$3) (75 + \underline{28}) + 73 = \underline{75} + (73 + 28)$$

$$4) 36 + (\underline{93} + 20) = (20 + \underline{36}) + 93$$

$$5) (62 + 61) + \underline{46} = \underline{61} + (62 + 46)$$

$$6) (92 + \underline{26}) + 95 = \underline{92} + (95 + 26)$$

$$7) \underline{41} + (87 + 28) = 41 + (28 + \underline{87})$$

$$8) (16 + \underline{88}) + 12 = (12 + \underline{16}) + 88$$

$$9) (29 + \underline{30}) + 71 = \underline{71} + (30 + 29)$$

$$10) (74 + 46) + \underline{65} = 65 + (\underline{46} + 74)$$

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Associative Property - Multiplication

Apply the Associative Property to Complete the Missing Values

$$1) 8 \times (10 \times \underline{7}) = 7 \times (\underline{8} \times 10)$$

$$2) (2 \times 9) \times \underline{6} = \underline{2} \times (6 \times 9)$$

$$3) (\underline{11} \times 10) \times 9 = 9 \times (11 \times \underline{10})$$

$$4) (\underline{10} \times 5) \times 9 = (\underline{5} \times 9) \times 10$$

$$5) 9 \times (3 \times \underline{10}) = (3 \times \underline{9}) \times 10$$

$$6) (9 \times \underline{8}) \times 6 = (8 \times \underline{9}) \times 6$$

$$7) 8 \times (9 \times \underline{3}) = 9 \times (3 \times \underline{8})$$

$$8) (5 \times 10) \times \underline{9} = (9 \times \underline{10}) \times 5$$

$$9) (6 \times \underline{10}) \times 7 = (10 \times \underline{6}) \times 7$$

$$10) \underline{7} \times (3 \times 11) = \underline{11} \times (3 \times 7)$$

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Associative Property - Multiplication

Apply the Associative Property to Complete the Missing Values

$$1) 16 \times (\underline{15} \times 13) = 13 \times (\underline{16} \times 15)$$

$$2) (18 \times \underline{17}) \times 24 = 17 \times (24 \times \underline{18})$$

$$3) 19 \times (23 \times \underline{24}) = (19 \times 24) \times \underline{23}$$

$$4) 19 \times (24 \times \underline{22}) = 22 \times (\underline{19} \times 24)$$

$$5) (\underline{24} \times 18) \times 13 = (\underline{13} \times 18) \times 24$$

$$6) (13 \times \underline{19}) \times 25 = \underline{25} \times (19 \times 13)$$

$$7) 24 \times (\underline{19} \times 16) = (16 \times 19) \times \underline{24}$$

$$8) (\underline{14} \times 11) \times 10 = \underline{11} \times (10 \times 14)$$

$$9) \underline{14} \times (23 \times 17) = 23 \times (14 \times \underline{17})$$

$$10) (\underline{13} \times 21) \times 20 = \underline{20} \times (13 \times 21)$$

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Associative Property

Apply the Associative Property to Complete the Missing Values

$$1) (\underline{6} \times 9) \times 3 = (\underline{3} \times 6) \times 9$$

$$2) (1 + \underline{4}) + 8 = 8 + (4 + \underline{1})$$

$$3) \underline{2} \times (7 \times 6) = (\underline{7} \times 6) \times 2$$

$$4) (5 + 6) + \underline{2} = 2 + (\underline{5} + 6)$$

$$5) 7 + (\underline{8} + 6) = 6 + (8 + \underline{7})$$

$$6) (7 \times \underline{9}) \times 3 = 3 \times (9 \times \underline{7})$$

$$7) \underline{9} + (3 + 6) = 3 + (\underline{6} + 9)$$

$$8) \underline{3} \times (7 \times 6) = \underline{6} \times (3 \times 7)$$

$$9) 4 \times (1 \times \underline{5}) = 1 \times (\underline{4} \times 5)$$

$$10) (2 \times \underline{1}) \times 4 = (2 \times \underline{4}) \times 1$$

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Associative Property

Apply the Associative Property to Complete the Missing Values

$$1) 13 \times (19 \times \underline{24}) = (19 \times 24) \times \underline{13}$$

$$2) 11 \times (20 \times \underline{14}) = 11 \times (14 \times \underline{20})$$

$$3) (22 \times 20) \times \underline{15} = (\underline{22} \times 15) \times 20$$

$$4) (\underline{18} \times 20) \times 15 = 15 \times (\underline{20} \times 18)$$

$$5) (21 + \underline{22}) + 23 = (\underline{23} + 22) + 21$$

$$6) (\underline{20} + 18) + 15 = (15 + \underline{18}) + 20$$

$$7) (20 \times \underline{24}) \times 19 = \underline{19} \times (20 \times 24)$$

$$8) 22 \times (21 \times \underline{24}) = (24 \times 22) \times \underline{21}$$

$$9) \underline{14} \times (21 \times 18) = (21 \times 14) \times \underline{18}$$

$$10) \underline{24} \times (23 \times 19) = (19 \times 24) \times \underline{23}$$