Worksheet

03/03/2020

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Problem quickname: 4870

<u>1)</u>

Calculate the result. Use the distributive law to evaluate the term.

a) $(-12 - 24)/4 = -12/4 - 24/4 = -3 - 6 = -9$
b) $(16 - 15) \cdot 3 = 16 \cdot 3 - 15 \cdot 3 = 48 - 45 = 3$
c) $(12 - (-8))/2 = 12/2 - (-8)/2 = 6 - (-4) = 10$
d) $(12 - 8)/2 = 12/2 - 8/2 = 6 - 4 = 2$
e) $(18 - (-4)) \cdot 4 = 18 \cdot 4 - (-4) \cdot 4 = 72 - (-16) = 88$
f) $3 \cdot (15 + 8) = 3 \cdot 15 + 3 \cdot 8 = 45 + 24 = 69$
g) $(-18 + -12)/(-3) = -18/(-3) + (-12)/(-3) = 6 + 4 = 10$
h) $(4 - 4) \cdot 4 = 4 \cdot 4 - 4 \cdot 4 = 16 - 16 = 0$
i) $(-8 - 7) \cdot 5 = -8 \cdot 5 - 7 \cdot 5 = -40 - 35 = -75$
j) $(-10 - (-25))/5 = -10/5 - (-25)/5 = -2 - (-5) = 3$

<u>2)</u>

Calculate the result. Use the distributive law to evaluate the term.

a) $2 \cdot (10 + 8) = 2 \cdot 10 + 2 \cdot 8 = 20 + 16 = 36$
b) $2 \cdot (7 + 4) = 2 \cdot 7 + 2 \cdot 4 = 14 + 8 = 22$
c) $(8 + 4) \cdot 3 = 8 \cdot 3 + 4 \cdot 3 = 24 + 12 = 36$
d) $(9 + 3) \cdot 2 = 9 \cdot 2 + 3 \cdot 2 = 18 + 6 = 24$
e) $(8 + 6) \cdot 3 = 8 \cdot 3 + 6 \cdot 3 = 24 + 18 = 42$
f) $(7 + 9) \cdot 2 = 7 \cdot 2 + 9 \cdot 2 = 14 + 18 = 32$
g) $(3 + 8) \cdot 2 = 3 \cdot 2 + 8 \cdot 2 = 6 + 16 = 22$
h) $(10 + 6) \cdot 2 = 10 \cdot 2 + 6 \cdot 2 = 20 + 12 = 32$
i) $2 \cdot (3 + 3) = 2 \cdot 3 + 2 \cdot 3 = 6 + 6 = 12$
j) $(5 + 8) \cdot 2 = 5 \cdot 2 + 8 \cdot 2 = 10 + 16 = 26$

<u>3)</u>

Calculate the result. Use the distributive law to evaluate the term.

a) $(105 - 55)/5 = 105/5 - 55/5 = 21 - 11 = 10$
b) $(522 - 306)/18 = 522/18 - 306/18 = 29 - 17 = 12$
c) $(162 - 81)/27 = 162/27 - 81/27 = 6 - 3 = 3$
d) $(243 - 144)/9 = 243/9 - 144/9 = 27 - 16 = 11$
e) $(48 - 45)/3 = 48/3 - 45/3 = 16 - 15 = 1$
f) $(143 - 66)/11 = 143/11 - 66/11 = 13 - 6 = 7$
g) $(378 - 56)/14 = 378/14 - 56/14 = 27 - 4 = 23$
h) $(621 - 270)/27 = 621/27 - 270/27 = 23 - 10 = 13$

i) $(132 - 120)/12 = 132/12 - 120/12 = 11 - 10 = 1$
j) $(160 - 50)/10 = 160/10 - 50/10 = 16 - 5 = 11$

<u>4)</u>

Calculate the result. Use the distributive law to evaluate the term.

a) $(26 - 23) \cdot 10 = 26 \cdot 10 - 23 \cdot 10 = 260 - 230 = 30$
b) $(18 - 18)/3 = 18/3 - 18/3 = 6 - 6 = 0$
c) $3 \cdot (11 + 16) = 3 \cdot 11 + 3 \cdot 16 = 33 + 48 = 81$
d) $(21 - 18)/3 = 21/3 - 18/3 = 7 - 6 = 1$
e) $(36 + 36)/9 = 36/9 + 36/9 = 4 + 4 = 8$
f) $(22 + 12) \cdot 6 = 22 \cdot 6 + 12 \cdot 6 = 132 + 72 = 204$
g) $4 \cdot (2 + 5) = 4 \cdot 2 + 4 \cdot 5 = 8 + 20 = 28$
h) $(25 - 2) \cdot 3 = 25 \cdot 3 - 2 \cdot 3 = 75 - 6 = 69$
i) $(20 - 10) \cdot 10 = 20 \cdot 10 - 10 \cdot 10 = 200 - 100 = 100$
j) $(36 - 18)/9 = 36/9 - 18/9 = 4 - 2 = 2$

Good Luck!