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) $(18 - (-15))/3 = 18/3 - (-15)/3 = 6 - (-5) = 11$
b) $(-8 + 20)/4 = -8/4 + 20/4 = -2 + 5 = 3$
c) $(14 + -6) \cdot 2 = 14 \cdot 2 + (-6) \cdot 2 = 28 + -12 = 16$
d) $(-8 - 8)/4 = -8/4 - 8/4 = -2 - 2 = -4$
e) $(30 - 30)/6 = 30/6 - 30/6 = 5 - 5 = 0$
f) $(30 + 25)/5 = 30/5 + 25/5 = 6 + 5 = 11$
g) $(-16 + -8)/4 = -16/4 + (-8)/4 = -4 + -2 = -6$
h) $(-12 - (-12)) \cdot (-3) = -12 \cdot (-3) - (-12) \cdot (-3) = 36 - 36 = 0$
i) $(12 + -12)/(-3) = 12/(-3) + (-12)/(-3) = -4 + 4 = 0$
j) $5 \cdot (-10 + 8) = 5 \cdot (-10) + 5 \cdot 8 = -50 + 40 = -10$

<u>2)</u>

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

a) $(3 + 9) \cdot 3 = 3 \cdot 3 + 9 \cdot 3 = 9 + 27 = 36$
b) $2 \cdot (3 + 10) = 2 \cdot 3 + 2 \cdot 10 = 6 + 20 = 26$
c) $(10 + 4) \cdot 3 = 10 \cdot 3 + 4 \cdot 3 = 30 + 12 = 42$
d) $(8 + 7) \cdot 2 = 8 \cdot 2 + 7 \cdot 2 = 16 + 14 = 30$
e) $(9 + 7) \cdot 2 = 9 \cdot 2 + 7 \cdot 2 = 18 + 14 = 32$
f) $(9 + 5) \cdot 2 = 9 \cdot 2 + 5 \cdot 2 = 18 + 10 = 28$
g) $3 \cdot (6 + 10) = 3 \cdot 6 + 3 \cdot 10 = 18 + 30 = 48$
h) $(5 + 4) \cdot 3 = 5 \cdot 3 + 4 \cdot 3 = 15 + 12 = 27$
i) $3 \cdot (4 + 8) = 3 \cdot 4 + 3 \cdot 8 = 12 + 24 = 36$
j) $2 \cdot (8 + 10) = 2 \cdot 8 + 2 \cdot 10 = 16 + 20 = 36$

<u>3)</u>

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

a) $(42 - 9)/3 = 42/3 - 9/3 = 14 - 3 = 11$
b) $(187 - 44)/11 = 187/11 - 44/11 = 17 - 4 = 13$
c) $(55 - 20)/5 = 55/5 - 20/5 = 11 - 4 = 7$
d) $(992 - 384)/32 = 992/32 - 384/32 = 31 - 12 = 19$
e) $(754 - 203)/29 = 754/29 - 203/29 = 26 - 7 = 19$
f) $(100 - 35)/5 = 100/5 - 35/5 = 20 - 7 = 13$
g) $(460 - 80)/20 = 460/20 - 80/20 = 23 - 4 = 19$
h) $(858 - 520)/26 = 858/26 - 520/26 = 33 - 20 = 13$

i) $(336 - 252)/28 = 336/28 - 252/28 = 12 - 9 = 3$
j) $(112 - 63)/7 = 112/7 - 63/7 = 16 - 9 = 7$

<u>4)</u>

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

a) $(18 + 36)/9 = 18/9 + 36/9 = 2 + 4 = 6$
b) $(56 - 48)/8 = 56/8 - 48/8 = 7 - 6 = 1$
c) $(72 + 81)/9 = 72/9 + 81/9 = 8 + 9 = 17$
d) $(12 - 6) \cdot 5 = 12 \cdot 5 - 6 \cdot 5 = 60 - 30 = 30$
e) $10 \cdot (22 + 27) = 10 \cdot 22 + 10 \cdot 27 = 220 + 270 = 490$
f) $(63 - 42)/7 = 63/7 - 42/7 = 9 - 6 = 3$
g) $(16 - 10)/2 = 16/2 - 10/2 = 8 - 5 = 3$
h) $(14 + 29) \cdot 5 = 14 \cdot 5 + 29 \cdot 5 = 70 + 145 = 215$
i) $(63 + 42)/7 = 63/7 + 42/7 = 9 + 6 = 15$
j) $(45 - 45)/5 = 45/5 - 45/5 = 9 - 9 = 0$

Good Luck!