

Learning Goal:

By the end of this lesson I should be able to EVALUATE mixed addition and subtraction problems WITHOUT the use of a calculator (technology).

Models: (i) Integer Chip model, (ii) hybrid integer chip model (write numbers instead of drawing chips), (iii) column model (adding), (iv) number model

Find the **SUM** of the following (number model, column model):

(a) $18 + 23 + 16$

(b) $4.8 + 6.7$

(c) $456 + 678 + 94$

(d) $12.55 + 8.65 + 4.40$

(e) $12 + (-14) + (-7)$

(d) $(-24) + (-12) + (-7)$

Find the **DIFFERENCE** for the following (number model, integer chip model)

(a) $25 - 18$

(c) $12 - 22$

(c) $6 - (-5)$

(d) $45 - (-5) + (-25)$

(e) $12.5 - 8.5$

(f) $490 - 350 - 210$

Skills Practice: EVALUATE the following:

(a) $14 - (-9)$

(b) $25 + (-11)$

(c) $(-9) - 11$

(d) $28 - 12 + 9$

(e) $28 - (-18) + (-5)$

(f) $(-35) - (-10)$

(g) $67 - (-24) - 32$

(h) $(-6.5) - 7.5 - 5.5$

(i) $34.2 - 24.6 - (-10.4)$

What operation (adding or subtracting) must be inserted into the black space to make the statement true?

(a) $15 \blacksquare (-8) \blacksquare (-6) = 1$

(b) $26 \blacksquare (-8) \blacksquare (-32) = 2$