

BE-1A | TUESDAY 10-31-06

① $14.2 \div (-7.1)$

② $\frac{5}{8} \div \left(-\frac{2}{3}\right)$

③ Make a line plot:
-4, 2, 5, -1, 0, 2, 0

④ Make a stem-leaf plot
22, 26, 33, 25, 22, 28, 20

⑤ $-8-4$

① $22.8 \div -11.4$

Positive $\div$ Negative is NEGATIVE

$$\begin{array}{r} 002.0 \\ 11.4 \overline{) 22.800} \\ \underline{228} \\ 0 \end{array}$$

$22.8 \div 11.4 = \boxed{-2}$

② $\frac{10}{11} \div \left(-\frac{4}{11}\right)$

positive $\cdot$ negative = NEGATIVE

$$\frac{10}{11} \cdot \frac{11}{4} = \frac{5}{2} = \boxed{-\frac{5}{2}}$$

$= \boxed{-2\frac{1}{2}}$

③ $-2 - 8 = \boxed{-10}$

④ Stem-Leaf Plot

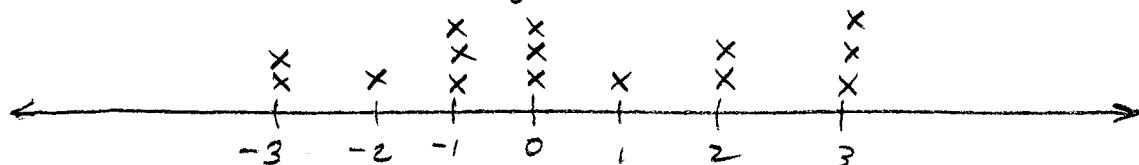
52, 33, 39, 38, 40, 41, 32, 44, 42, 59, 35, 30

Let stem be ten's: smallest $\Rightarrow$ 30 largest $\Rightarrow$ 59

stem	leaf
3	0 2 3 5 8 9
4	0 1 2 4
5	2 9

⑤ Line Plot

-3 1 3 -1 0 2 -3 0 2 -1 0 -2 3 -1 3

SMALLEST $\Rightarrow$ -3 largest 3

⑥ $\frac{-96}{8}$

NEGATIVE $\div$ POSITIVE is NEGATIVE

$$\begin{array}{r} 12.0 \\ 8 \overline{) 96.00} \\ \underline{8} \\ 16 \\ \underline{16} \\ 0 \end{array}$$

$\frac{-96}{8} = \boxed{-12}$

$$⑦ -5(-1) = \boxed{5}$$

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$$⑧ -\frac{4}{5} - \left(-\frac{1}{4}\right)$$

$$-\frac{4}{5} + \frac{1}{4} \quad \text{Need common denominator}$$

$$-\frac{16}{20} + \frac{5}{20} = \boxed{-\frac{11}{20}}$$

⑨ Mean, Median, Mode

90, 91, (72), 91, 92, 92, 92, 91, 90, 90, 91
SMALLEST

72, 90, 90, 90, 91, 91, 91, 92, 92, 92
MEDIAN

MOST OFTEN = MODE = 91

MEANS:

$$\begin{array}{r} 90 \cdot 3 = 270 \\ 91 \cdot 4 = 364 \\ 92 \cdot 3 = 276 \\ \hline 982 \end{array}$$

$$89.27 = \boxed{89.3}$$

$$\begin{array}{r} 11 \overline{) 982.00} \\ \underline{88} \\ 102 \\ \underline{99} \\ 30 \\ \underline{22} \\ 80 \end{array}$$

⑩ $0.4 + (-6.5) \Rightarrow$ MORE NEGATIVES SO ANSWER IS NEGATIVE

SUBTRACT: $\begin{array}{r} 6.5 \\ 0.4 \\ \hline \end{array}$

$6.1 \Rightarrow \boxed{-6.1}$

⑪ $-\frac{2}{5} \div -\left(\frac{7}{8}\right) \Rightarrow$ NEGATIVE $\div$ NEGATIVE IS POSITIVE

$$\frac{2}{5} \cdot \frac{8}{7} = \boxed{\frac{16}{35}}$$

⑫ $\left(-\frac{1}{2}\right)\left(\frac{2}{5}\right) \Rightarrow$ NEGATIVE $\cdot$ POSITIVE IS NEGATIVE

$$\frac{1}{2} \cdot \frac{2}{5} = \boxed{\frac{1}{5}}$$