Accentuate the Negative
Investigation 1 Review

CIRCLE YOUR FINAL ANSWER.
WRITE NUMBER SENTENCES FOR ALL PROBLEMS!

At one point in the game, the scores for Mr. Vitale's class are as follows:

<table>
<thead>
<tr>
<th>Cameron Crazies</th>
<th>Heels</th>
<th>Orange</th>
</tr>
</thead>
<tbody>
<tr>
<td>250</td>
<td>-300</td>
<td>-150</td>
</tr>
</tbody>
</table>

1. How many points separate the highest score from the lowest score?

\[
\text{highest: 250} \quad \text{550 points separate them} \quad \text{lowest: -300}
\]

For Questions 2 through 4, USE THE POINT TOTALS LISTED ABOVE.

2. The Cameron Crazies answer a 200-point question correctly, a 150-point question incorrectly, a 50-point question correctly, and another 50-point question correctly.

What is their score now?

\[
250 + 200 - 150 + 50 + 50 = 400
\]

3. The Heels answer a 50-point question incorrectly, a 200-point question incorrectly, a 100-point question correctly, and a 150-point question incorrectly.

What is their score now?

\[
-300 + -50 + -200 + 100 + -150 = -600
\]

4. The Orangemen answer a 100-point question incorrectly, a 200-point question correctly, a 150-point question correctly, and a 50-point question incorrectly.

What is their score now?

\[
-150 + -100 + 200 + 150 + -50 = 50
\]
Team A: -200  Team B: 150  Team C: -350  Team D: 300

Team E: -50

5. Order the teams by score, from first place through fifth place. List the letter of the team.

1st = D  2nd = B  3rd = E  4th = A  5th = C

6. By how many points is the first-place team ahead of the second-place team? 150

7. By how many points is the first-place team ahead of the third-place team? 350

8. By how many points is the second-place team ahead of the fourth-place team? 350

9. By how many points is the third-place team ahead of the fifth-place team? 300

In problems 10-12, insert the > or < to make a true statement.

10. 46 < 64

11. -50 < 0

12. -60 < 7 < -80
The temperature reading on a thermometer is 10 degrees. Tell what the new reading would be if the temperature:

(Hint: always start back at 10 degrees) WRITE NUMBER SENTENCES!

13. rises 10 degrees  \[ 20^\circ \] \[ 10^\circ + 10^\circ = 20^\circ \]
14. falls 2 degrees \[ 8^\circ \] \[ 10^\circ - 2^\circ = 8^\circ \]
15. falls 15 degrees \[ -5^\circ \] \[ 10^\circ - 15^\circ = -5^\circ \]
16. rises 7 degrees \[ 17^\circ \] \[ 10^\circ + 7^\circ = 17^\circ \]

The temperature reading on a thermometer is -10 degrees. Tell what the new reading would be if the temperature:

(Hint: always start back at -10 degrees) WRITE NUMBER SENTENCES!

17. falls 3 degrees \[ -13^\circ \] \[ -10^\circ - 3^\circ = -13^\circ \]
18. rises 3 degrees \[ -7^\circ \] \[ -10^\circ + 3^\circ = -7^\circ \]
19. falls 15 degrees \[ -25^\circ \] \[ -10^\circ - 15^\circ = -25^\circ \]
20. rises 15 degrees \[ 5^\circ \] \[ -10^\circ + 15^\circ = 5^\circ \]

In problems 21-24, give the temperature halfway between the two given temperatures.

21. 0 degrees and 20 degrees \[ 10^\circ \] \[ \frac{20}{2} = 10 \] \[ 0 + 10 = 10^\circ \]
22. -8 degrees and -18 degrees \[ -13^\circ \] \[ \frac{10}{2} = 5 \] \[ -13 + 5 = -13^\circ \]
23. -5 degrees and 15 degrees \[ 5^\circ \] \[ \frac{20}{2} = 10 \] \[ 0 + 10 = 10^\circ \]
24. 9 degrees and -9 degrees \[ 0^\circ \] \[ \frac{-18}{2} = 9 \] \[ -9 + 9 = 0^\circ \]
In problems 25-28, tell which temperature reading is farther from -2 degrees.

25. -6 degrees or 6 degrees
   4 away 8 away
   6°

26. -7 degrees or 3 degrees
   5 away 5 away
   equal distance

27. 2 degrees or -5 degrees
   4 away 3 away
   2°

28. -10 degrees or 5 degrees
   8 away 7 away
   -10°

For 29 and 30 you should draw a chipboard that represents the # sentence. Then describe the steps you would take and give the final value of the board.

29. \[7 - (-9) = 16\]

Start with 7 black chips
Need to remove 9 red chips
Add a black and 9 red chips to the board for a total of zero
Remove 9 red chips
You are left with 16 black chips

30. \[-7 - (-6) = -13\]

Start with 7 red chips
Need to remove 6 black chips
Add 6 black and 6 red chips to the board for a total of zero
Remove 6 black chips
You are left with 13 red chips