Adding Signed Numbers: Worked Answers

Each problem solved the way the lesson does it.

Name: _____ Date: _____

1. **−7 + (−8)**
   - Both negative (same sign). Add the amounts: 7 + 8 = 15.
   - Keep the sign: negative.

   Answer: **−15** (owe $7, then owe $8 more: owe $15)

2. **9 + (−4)**
   - Different signs. Subtract: 9 − 4 = 5.
   - The 9 is bigger and positive, so the answer is positive.

   Answer: **5** (have $9, owe $4: $5 left)

3. **−12 + 5**
   - Different signs. Subtract: 12 − 5 = 7.
   - The 12 is bigger and negative, so the answer is negative.

   Answer: **−7**

4. **−6 + (−6)**
   - Same sign. Add: 6 + 6 = 12.
   - Keep the sign: negative.

   Answer: **−12**

5. **15 + (−20)**
   - Different signs. Subtract: 20 − 15 = 5.
   - The 20 is bigger and negative, so the answer is negative.

   Answer: **−5**

6 **−3 + (−5) + (−2)**

- All negative. Add the amounts: 3 + 5 + 2 = 10.
- Keep the sign: negative.

Answer: −10

7 **−4 + 9 + (−5)**

- Group the debts: (−4) + (−5) = −9.
- Now −9 + 9. A number plus its opposite is 0.

Answer: 0

8 **2.5 + (−6)**

- Different signs. Subtract: 6 − 2.5 = 3.5.
- The 6 is bigger and negative, so the answer is negative.

Answer: −3.5