

## Teacher Instructions: True/False Questions on OPERATIONS WITH INTEGERS

*Design of the activity:* This activity is designed as a **closing activity** after lessons on adding/subtracting, multiplying and dividing integers. This is ideal for a “think, pair, share” format. Students should take 3-4 minutes to individually answer the questions, then pair up and compare/revise, then share in a whole group discussion. Justification of their conclusions is the most critical piece, and the discussion of these justifications should not be shortchanged.

*Time frame:* The entire activity should take 10-15 minutes, depending on the discussion that follows.

*Extension:* Many more true/false questions could be written, some more abstract, some less abstract. Revise or expand the given questions based on your particular group of students.

True or False? Be prepared to justify your conclusion.

1. The sum of two negative numbers is positive.

2. If  $b > a$ , then  $a - b < 0$ .

3. A negative minus a negative is a positive.

4.  $|-a| = a$  for all values of  $a$ .

5. If  $a$  and  $b$  have opposite signs, then:

*i.*  $a + b = 0$

*ii.*  $a - b > 0$

*iii.*  $\frac{a}{b} < 0$