

# Integers and Fractions Practice

This sheet reviews operations with integers and with positive fractions, two number topics from the Grade 7 program ([Topic](#), [Topic](#)). It covers comparing and ordering positive fractions, positive decimals (to thousandths) and whole numbers by using benchmarks, place value, and equivalent fractions and/or decimals ([Outcome](#), [Outcome](#), [Details](#)).

Time: about 35 minutes.

## Exercises

### 1. Integer addition and subtraction

Work out each answer. Show your sign carefully.

- a)  $8 + 5 =$  \_\_\_\_\_
- b)  $7 - (-4) =$  \_\_\_\_\_
- c)  $-6 - (-9) =$  \_\_\_\_\_
- d)  $-12 + (-7) =$  \_\_\_\_\_

### 2. Multiplying and dividing integers

Circle the correct answer for each question ([Details](#)).

- a)  $(-3) \times (-8) =$   
A)  $-24$  B)  $24$  C)  $-11$  D)  $11$
- b)  $(-45) \div 9 =$   
A)  $-5$  B)  $5$  C)  $-36$  D)  $36$
- c)  $6 \times (-7) =$   
A)  $-42$  B)  $42$  C)  $-1$  D)  $1$
- d)  $(-64) \div (-8) =$   
A)  $-8$  B)  $8$  C)  $-56$  D)  $56$

### 3. Adding and subtracting fractions

Find each sum or difference in simplest form ([Outcome](#)).

- a)  $\frac{3}{4} + \frac{5}{6} =$  \_\_\_\_\_
- b)  $2\frac{1}{3} - \frac{5}{6} =$  \_\_\_\_\_
- c) Jasmine ran  $\frac{5}{8}$  km on Monday and  $\frac{3}{4}$  km on Tuesday. How far did she run in total? \_\_\_\_\_
- d) A board is  $\frac{7}{8}$  m long. A carpenter cuts off  $\frac{1}{3}$  m. How much board is left? \_\_\_\_\_

### 4. Multiplying fractions

Find each product in simplest form ([Details](#)).

- a)  $\frac{2}{3} \times \frac{3}{5} =$  \_\_\_\_\_
- b)  $\frac{4}{7} \times \frac{2}{3} =$  \_\_\_\_\_
- c) A recipe needs  $\frac{3}{4}$  cup of oil. Rachel is making  $\frac{2}{3}$  of the recipe. How much oil does she need?  
\_\_\_\_\_
- d) Which expression represents "half of three-fifths"?  
A)  $\frac{1}{2} + \frac{3}{5}$  B)  $\frac{1}{2} \times \frac{3}{5}$  C)  $\frac{1}{2} \div \frac{3}{5}$  D)  $\frac{3}{5} \div \frac{1}{2}$

## 5. Comparing and ordering numbers

Order these numbers from least to greatest ([Outcome](#), [Details](#)):

"  $\frac{3}{4}$ , 0.6, " 1.2,  $\frac{5}{8}$ , " 0.3, 1

Complete the table by writing the absolute value of each number.

| Value         | Absolute value |
|---------------|----------------|
| " 9           | _____          |
| $\frac{3}{4}$ | _____          |
| " 2.5         | _____          |
| 7             | _____          |

## 6. Order of operations

Evaluate each expression, following the standard order of operations.

a) (" 2) + 3  $\times$  (" 4) = \_\_\_\_\_

b) (5 " 8)  $\div$  (" 3) = \_\_\_\_\_

c)  $\frac{1}{2} + \frac{1}{4} \times 2$  = \_\_\_\_\_

d) (" 6)  $\times$  (2 " 5) + 4 = \_\_\_\_\_

## Answer key

1. a) " 3 b) 11 c) 3 d) " 19

2. a) B b) A c) A d) B

3. a)  $1\frac{7}{12}$  b)  $1\frac{1}{2}$  c)  $1\frac{3}{8}$  km d)  $\frac{13}{24}$  m

4. a)  $\frac{2}{5}$  b)  $\frac{8}{21}$  c)  $\frac{1}{2}$  cup d) B

5. Order: " 1.2, "  $\frac{3}{4}$ , " 0.3, 0.6,  $\frac{5}{8}$ , 1. Absolute values: 9,  $\frac{3}{4}$ , 2.5, 7

6. a) " 14 b) 1 c) 1 d) 22