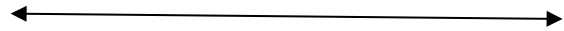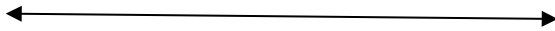**Mathematics 9 - Chapter 1 Practice Test**
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1. Order the following rational numbers from least to greatest (3 marks).

$$-\frac{6}{5}, \quad 1.2, \quad -1.1, \quad -\frac{1}{4}, \quad 0.2, \quad -1\frac{3}{8}$$

2. Identify a rational number between each pair of numbers (1 mark each). Sketch a number line to illustrate each answer (1 mark each).

a) 1.2, 1.4

b) –1.05, $-\frac{9}{10}$

3. Convert each fraction to a decimal to 2 decimal places (1 mark each):

a) $\frac{3}{4}$ _____

b) $-\frac{3}{8}$ _____

4. Convert each fraction to a percent (1 mark each):

d) $\frac{3}{3}$ _____

e) $\frac{63}{100}$ _____

5. Convert each decimal to a fraction (1 mark each):

f) 0.70 _____

g) 0.03 _____

6. Calculate the square root for each of the following, round to 2 decimal points if necessary (1 mark each):

h) $\sqrt{81}$ _____

i) $\sqrt{239}$ _____

7. Determine each sum.

a) $8.37 + 0.58$ (1 mark)

b) $\frac{5}{8} + \left(-\frac{1}{9}\right)$ (2 marks)

c) $-\frac{3}{4} + \frac{2}{3}$ (2 marks)

d) $-8\frac{1}{4} + 5\frac{1}{5}$ (2 marks)

8. Determine each difference.

a) $-112.2 - (-14.8)$ (1 mark)

b) $\frac{2}{5} - \frac{9}{10}$ (2 marks)

c) $\frac{23}{8} - \left(-\frac{7}{2}\right)$ (2 marks)

d) $3\frac{5}{6} - \left(-2\frac{2}{3}\right)$ (2 marks)

9. Determine each product. (2 marks each)

a) $(-14.6)(2.5)$

b) $\left(\dfrac{9}{5}\right)\left(6\dfrac{1}{3}\right)$

c) $\left(-\dfrac{2}{3}\right)\left(\dfrac{5}{2}\right)$

d) $-3 \times \left(\dfrac{4}{-6}\right)$

10. Determine each quotient. (2 marks each)

a) $(-8.64) \div (-2.7)$

b) $2 \div \dfrac{3}{7}$

c) $\left(-\dfrac{5}{12}\right) \div \left(-8\dfrac{1}{3}\right)$

d) $\left(-\dfrac{3}{4}\right) \div \left(-\dfrac{6}{5}\right)$

11. Evaluate. (2 marks each)

a) $2.3 + (-11.2) \div (-0.2) - 3.7$

b) $\left(-\dfrac{2}{3}\right) \div \left[\dfrac{1}{4} + \left(-\dfrac{1}{2}\right)\right] \times \dfrac{1}{3}$