

2a Decimals Exam Review

1. Put the following rational numbers in order from smallest to biggest.

$$\frac{-3}{8}, 1.\bar{8}, \frac{9}{5}, \frac{-1}{2}, -1$$

2. Which value in each pair is greater?
Use at least 2 different methods in total.
ex) decimals, number line, common denominator.

a) $\frac{3}{8}, \frac{7}{15}$

b) $\frac{-3}{5}, \frac{-2}{3}$

c) $-1\frac{3}{4}, -1\frac{4}{5}$

3. Find a decimal number between each pair of rationals.

a) $\frac{5}{8}, \frac{6}{8}$

b) $-2\frac{1}{2}, -2\frac{3}{5}$

4. Find a reduced fraction between each pair of rationals.

a) 0.3, 0.4

b) -3.2, -3.3

This review is intended for you to “brush up” on your basic math skills. All students leaving grade 9 math shall be able to +, -, x, ÷, and do order of operation questions without the use of a calculator.

5. Perform the following operations. Make sure to show all work.



a) $-2.4 + (-2.8)$

b) $4.6 - (-3.9)$

c) $-2.7 - (-3.9)$

d) $3.2 \times (-8)$

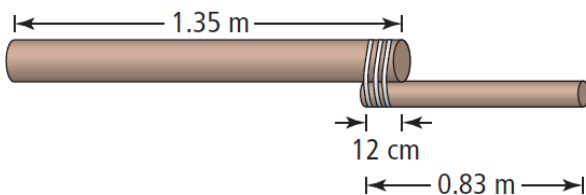
e) $(-2.5) \times (-8.6)$

6. Future Shop has all video games on sale for 20% off the regular price. Find out the sale price if the game regularly sells for \$48



7. What is the **total cost** of a video game that is on sale for \$38.40 if the P.S.T. is 7% and the G.S.T. is 5%?

8. Two wooden poles measured 1.35 m and 0.83 m in length. To make a new pole, they were attached by overlapping the ends and tying them together. The length of the overlap was 12 cm. What was the total length of the new pole in metres?



9. Evaluate, showing all work.



- a) $(2.1 - 1.8)^2 + 3.95$
- b) $-2.3 + 4.5(1.1)^2$
10. Fill in the blank to make each statement true.
- a) _____ + 1.5 = -4.7
- b) 2.7 - _____ = 2.8
- c) $-3.5 \times (\text{_____}) = 3.15$