

Number Sense

Unit Test

Name: _____

Date: _____

Section A

1. Using the boxes below, write these numbers in order from least to greatest.

0.1, $\frac{4}{5}$, 60%, $\frac{3}{10}$, $\frac{1}{5}$, 50%, 0.7

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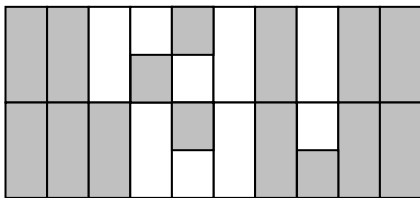
2. Write each fraction as a percent by first changing it to a fraction over 100.

a) $\frac{3}{5}$

b) $\frac{12}{25}$

c) $\frac{48}{64}$

3. What percent of this figure is shaded?



4. Perform the following calculations using the correct order of operations.

a) $14 + 3 \times 6 - 7$

b) $6 + 9 \div 3 - 7$

c) $12 + 8 \times 3 \div 6$

d) $4 \times 7 - 8 \div 2$

5. Translate the following verbal rules into mathematical expressions (such as $7 + 2$) and solve.

a) Multiply 12 and 4. Then subtract 13. Then divide by 5. _____

b) Subtract 6 from 18. Then multiply by 8. Then add 12 divided by 4. _____

6. Put these integers into the boxes in **increasing** order: + 5, - 8, + 12, - 3, - 5.

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Section A (continued)

7. On the number line, mark the number that is:

A: 4 less than 0

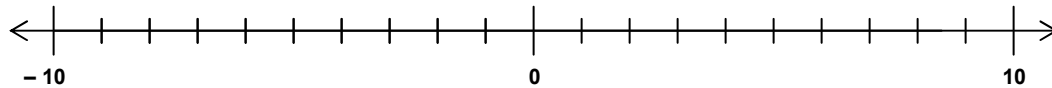
B: 3 less than -5

C: 5 greater than -1

D: 8 greater than -2

E: Halfway between $+2$ and -6

F: An equal distance from -7 and -3



8. Write a subtraction statement to show how far the temperature **fell** between:

Temperature in Yellowknife	
Monday	$+3^{\circ}\text{C}$
Tuesday	-11°C
Wednesday	-25°C

a) Monday and Tuesday. _____

b) Tuesday and Wednesday. _____

c) If the pattern continues, what will the temperature be on Thursday?

9. Add or subtract.

a) $-4 + 12$

b) $+3 - 21$

c) $-3 - 18$

d) $-47 + (-21)$

e) $3 - (-17)$

= _____

= _____

= _____

= _____

= _____

10. Fill in the missing integer to make each statement true.

a) $(-3) + \underline{\hspace{1cm}} = -15$

b) $+17 - \underline{\hspace{1cm}} = +30$

c) $\underline{\hspace{1cm}} - (-4) = -6$

d) $3 \times \underline{\hspace{1cm}} = -21$

11. Order from least to greatest:

0.415 $0.4\overline{15}$ $0.4\overline{15}$ $0.\overline{415}$ _____, _____, _____, _____

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Section B

12. Multiply or divide.

a) 4×0.3

b) 9×7.5

c) 100×1.81

d) $6.56 \div 8$

e) $3.95 \div 10$

f) $(-3) \times 4$

g) $(-15) \div 3$

h) $(-3) \times (-12)$

i) $(-44) \div (-11)$

13. a) On a map, 2 cm represents 7 km in real life.

If a lake is 12 cm long on the map, what is its actual size?

b) The scale on a map is $\frac{1}{200}$. A forest is 50 cm wide on the map.

How wide is the real forest?

c) The scale on a map is $\frac{1}{80000}$. The distance between two cities is 200 km.

How far away are the cities on the map?

14. Dana rode 100 km in 5 hours.

How far could she ride in 7 hours? In 15 minutes?

15. A car travels 30 kilometres in 18 minutes.

What is its average speed in km/hr?

16. There are 15 boys and 16 girls in a class.

$\frac{3}{8}$ of the girls have grey eyes, and 20% of the boys have grey eyes.

How many children have grey eyes?

17. Express each percent as a proper fraction and reduce to lowest terms.

a) 67.5%

b) 5.2%

c) .08%

d) 180%

18. Stephen spent \$640 on furniture.

He spent 25% of this on a chair, \$201.60 on a table and the rest on a sofa.

What fraction and what percent of the \$640 did he spend on each item?

19. In school A, there are 360 children and 60% are girls.

In school B, there are 330 children and the ratio of boys to girls is 5 : 6.

Which school has more boys?

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Section B (continued)

20. Multiply or divide, and reduce your answer to lowest terms.

a) $\frac{2}{3} \div 12$

b) $\frac{2}{3} \times \frac{5}{7}$

c) $45 \times \frac{4}{5}$

d) $\frac{4}{6} \times \frac{8}{9}$

e) $\frac{3}{16} \div \frac{8}{9}$

f) $.2 \times .75$

g) $.08 \times .6$

h) $.07 \times .65$

21. Find two consecutive whole numbers that $\sqrt{55}$ lies between.

22. Fill in the blanks.

a) 275% of 64 is _____

b) 75 is _____% of 40

c) 125.5% of 400 is _____

d) $\frac{3}{2}$ is _____% of $3\frac{3}{4}$

23. 7 cans of juice cost \$5.49 and are shared between 2 friends.

Andrew drinks 3 cans and Sayaka drinks 4 cans.

After 14% sales tax is added, how much should each person pay?