

4th Grade Review

2019 WCS Summer Math Packet



“MOST STUDENTS LOSE ABOUT TWO MONTHS OF
GRADE LEVEL EQUIVALENCY IN MATHEMATICAL
COMPUTATION SKILLS OVER THE SUMMER MONTHS”
(COOPER & NYE, 1996)

Mr. Stahlheber
RTI Coordinator
dstahlheber@windhamsd.org

Mrs. Coish
RTI Tutor
mcoish@windhamsd.org

4TH GRADE TOPIC OVERVIEW:

TOPIC 1 – COMPARING NUMBERS, ROUNDING & NUMBER FORMS

TOPIC 2 – ADDING & SUBTRACTING MULTI-DIGIT NUMBERS

TOPIC 3 – MULTIPLYING 1-DIGIT NUMBERS

TOPIC 4 – MULTIPLYING BY 2-DIGIT NUMBERS

TOPIC 5 – DIVIDING BY 1-DIGIT NUMBERS

TOPIC 6 – PROBLEM SOLVING (SKIPPED DUE TO TIME CONSTRAINTS)

TOPIC 7 – FACTORS & MULTIPLES

TOPIC 8 – FRACTIONS – ORDERING AND EQUIVALENT

TOPIC 9 – ADDING & SUBTRACTING FRACTIONS

TOPIC 10 – MULTIPLYING FRACTIONS – (SKIPPED DUE TO TIME CONSTRAINTS)

TOPIC 11 – REPRESENT & INTERPRET DATA (SKIPPED DUE TO TIME CONSTRAINTS)

TOPIC 12 – UNDERSTANDING & COMPARE DECIMALS

TOPIC 13 – MEASUREMENT

TOPIC 14 – PATTERNS (SKIPPED DUE TO TIME CONSTRAINTS)

TOPIC 15 – CONCEPTS OF ANGLES & ANGLE MEASUREMENT

TOPIC 16 – LINES, ANGLES, & SHAPES

5TH GRADE TOPIC PREVIEW:

TOPIC 1 – UNDERSTAND PLACE VALUE

TOPIC 2 – ADD & SUBTRACT DECIMALS TO HUNDREDTHS

Topic 1

Greater than / Less than
Equal to

- $>$ = greater than
- $<$ = less than
- $=$ = equal to

• $291,846 < 291,864$

Student Work

• $88,645 > 87,645$

Rounding

• $166,742 = 167,000$

• $76,532 = 77,000$

• $14,921 = 14,900$

• $83,491 =$

• $65,489 =$

• $891,648 =$

Write the proper
number form below

832

Number form = 832

Expanded form = $800 + 30 + 2$

Word form =
eight hundred thirty-two

749

• Word form:

• Number form:

• Expanded form: ①

Topic 2

Multi-digit Addition

$$\begin{array}{r} \bullet \quad 92,458 \\ + 31,761 \\ \hline 124,219 \end{array}$$

Student Work

$$\begin{array}{r} \bullet \quad 5,342 \\ + 1,999 \\ \hline \end{array}$$

$$\bullet \quad 652,198 + 49,753 =$$

Multi-digit Subtraction

$$\begin{array}{r} \bullet \quad 713 \\ 8752 \\ - 3421 \\ \hline 4931 \end{array}$$

$$\begin{array}{r} \bullet \quad \overset{6}{\cancel{70}} \overset{9}{\cancel{8}} \overset{9}{\cancel{8}} \overset{10}{\cancel{0}} \\ - 25,228 \\ \hline 44,772 \end{array}$$

$$\begin{array}{r} \bullet \quad 8,052 \\ - 1,205 \\ \hline \end{array}$$

$$\begin{array}{r} \bullet \quad 20,008 \\ - 16,074 \\ \hline \end{array}$$

Topic 3

Multiply

- $5 \times 300 = 1,500$
- $8,000 \times 6 = 48,000$
- $40 \times 40 = 1,600$

Student Work

- $90 \times 90 =$
- $3 \times 700 =$
- $60 \times 50 =$

* Hint: Multiply the basic facts, then add the zeros.

Multiply

$$\begin{array}{r} 54 \\ \cdot 987 \\ \times 6 \\ \hline 5952 \end{array}$$

$$\begin{array}{r} 43 \\ \cdot 2187 \\ \times 5 \\ \hline 10935 \end{array}$$

$$\begin{array}{r} \cdot 1,341 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} \cdot 233 \\ \times 6 \\ \hline \end{array}$$

Topic 4

Multiply

Student Work

• $53 \times 32 = 1,696$

$$\begin{array}{r} 53 \\ \times 32 \\ \hline 106 \\ 1590 \\ \hline 1696 \end{array}$$

• $76 \times 23 = 1,748$

$$\begin{array}{r} 76 \\ \times 23 \\ \hline 228 \\ 1520 \\ \hline 1748 \end{array}$$

• 21×51

$$\begin{array}{r} 21 \\ \times 51 \\ \hline 21 \\ 1050 \\ \hline 1071 \end{array}$$

• 72×14

• $99 \times 99 =$

• $60 \times 30 =$

Topic 5

Divide

• $560 \div 8 = 70$

$$\begin{array}{r} 70 \\ 8 \overline{) 560} \\ \underline{-56} \\ 00 \\ \underline{-0} \\ 0 \end{array}$$

• $6000 \div 2 = 3,000$

$$\begin{array}{r} 3000 \\ 2 \overline{) 6000} \\ \underline{-6} \\ 00 \\ \underline{-0} \\ 00 \\ \underline{-0} \\ 00 \\ \underline{-0} \\ 00 \\ \underline{-0} \\ 00 \\ \underline{-0} \\ 0 \end{array}$$

* D, M, S, B, Repeat

• $4 \overline{) 1331} \text{ R3}$

$$\begin{array}{r} 82 \text{ R3} \\ 4 \overline{) 1331} \\ \underline{-32} \\ 11 \\ \underline{-8} \\ 3 \end{array}$$

• $9 \overline{) 7104} \text{ R3}$

$$\begin{array}{r} 789 \text{ R3} \\ 9 \overline{) 7104} \\ \underline{-63} \\ 80 \\ \underline{-72} \\ 84 \\ \underline{-81} \\ 3 \end{array}$$

Student Work

• $720 \div 9 =$

• $4,000 \div 2 =$

• $2 \overline{) 429}$

• $5 \overline{) 9287}$

* Skip Topic 6

Topic 7

Factors

Student Work

- $\begin{array}{c} 6 \\ \overbrace{1, 2, 3, 6} \end{array}$
- $\begin{array}{c} 15 \\ \overbrace{1, 3, 5, 15} \end{array}$
- $\begin{array}{c} 11 \\ \overbrace{1, \quad 11} \end{array}$

- 8
- 18
- 7

Prime or Composite

- 6 Composite
- 15 Composite
- 11 Prime

- 8 _____
- 18 _____
- 7 _____
- 2 _____

Topic 8

Equivalent Fractions

Student Work

• $\frac{2}{3} = \frac{4}{\square}$

$\frac{2 \times 2}{3 \times 2} = \frac{4}{6}$

• $\frac{4}{5} = \frac{8}{10}$

$4 \times 2 = 8$
 $5 \times 2 = 10$

• $\frac{3}{5} = \frac{\square}{6}$

• $\frac{6}{10} =$

Are the fractions

> or < or = $\frac{1}{2}$

• $\frac{5}{8} : : \textcircled{>} < =$

: 4 is half of 8 and five is greater than 4

• $\frac{6}{12} : : > < \textcircled{=}$

: 6 is half of twelve

• $\frac{9}{16} : : > < =$

• $\frac{2}{8} : : > < =$

Topic 9

Add or Subtract Fractions

$$\bullet \frac{6}{8} - \frac{3}{8} = \frac{3}{8}$$

$$\bullet \frac{4}{10} + \frac{5}{10} = \frac{9}{10}$$

$$\bullet \begin{array}{r} 5\frac{7}{10} \\ + 4\frac{4}{10} \\ \hline 9\frac{11}{10} = 10\frac{1}{10} \end{array}$$

$$\bullet \begin{array}{r} 9 \rightarrow 8\frac{8}{8} \\ - 3\frac{3}{8} \rightarrow 3\frac{3}{8} \\ \hline 5\frac{5}{8} \end{array}$$

Student Work

$$\bullet \frac{4}{6} - \frac{2}{6} =$$

$$\bullet \frac{5}{9} - \frac{3}{9} =$$

$$\bullet \begin{array}{r} 3\frac{12}{6} \\ + 1\frac{12}{6} \\ \hline \end{array}$$

$$\bullet \begin{array}{r} 12 \\ - 4\frac{3}{3} \\ \hline \end{array}$$

Convert to a mixed#

• $\frac{7}{5} = 1\frac{2}{5}$

• $\frac{17}{5} = 3\frac{2}{5}$

Student Work

• $\frac{22}{5} =$

• $\frac{12}{3} =$

Convert to a decimal

• $\frac{7}{10} = 0.7$

• $\frac{5}{100} = 0.05$

• $\frac{19}{100} =$

• $\frac{3}{10} =$

Convert to a fraction

• $0.8 = \frac{8}{10}$

• $0.24 = \frac{24}{100}$

• $0.58 =$

• $0.03 =$

Customary Units of Capacity

- 1 cup (c) = 8 fluid ounces (fl oz)
- 1 pint (pt) = 2 cups
- 1 quart (qt) = 2 pints
- 1 gallon (gal) = 4 quarts

- 5 gal = 20 qts
 $5 \times 4 = 20$
- 20 c = 10 pts
 $20 \div 2 = 10$

Student Work

- 9 pts = c
- 12 qts = gal

Customary Units of Length

- 1 foot (ft) = 12 inches (in)
- 1 yard (yd) = 3 feet (ft)
- 1 yard (yd) = 36 inches (in)
- 1 mile (mi) = 1,760 yards (yd)
- 1 mile (mi) = 5,280 feet (ft)

- 12 ft = 144 in
 $12 \times 12 = 144$
- 215 yds = 645 ft
 $215 \times 3 =$

• 48 in = ft

• 3 mi = ft

Customary Units of Weight

- 1 pound (lb) = 16 ounces (oz)
- 1 ton (T) = 2,000 pounds

- 5 tons = 10,000 lbs
 $5 \times 2000 = 10,000$
- 48 oz = 3 lbs
 $48 \div 16 = 3$

• 8,000 lbs = tons

• 4 lbs = oz

Topic 13. Conit.

King Henry Died Unusually Drinking
chocolate milk

K	H	D	U	D	C	m
		2	0	0		

• 2m = 200 cm

• 55cm = 550 mm

K	H	D	U	D	C	m
			55	0		

Student Work

• 5 km = _____ m

• 21 m = _____ cm

• 9 liters = 9000 mL

K	H	D	U	D	C	m
		9	0	0	0	

• 20,000 mL = 20 L

K	H	D	U	D	C	m
		20	0	0	0	

• 4,000 mL = _____ L

• 3.5 L = _____ mL

• 5 kg = 5000 g

K	H	D	U	D	C	m
		5	0	0	0	

• 8g = 8000 mg

K	H	D	U	D	C	m
		8	0	0	0	

• 7 kg = _____ g

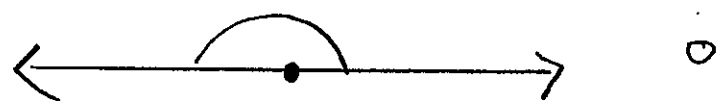
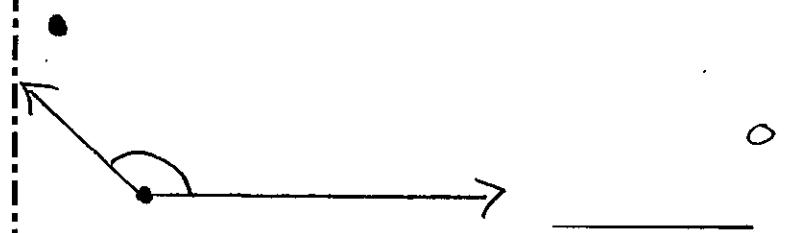
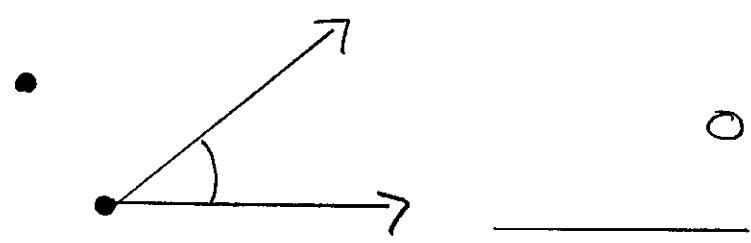
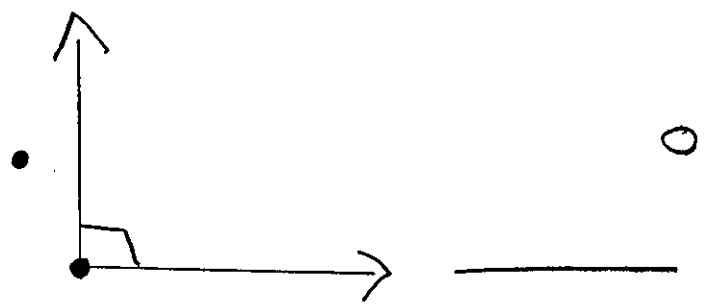
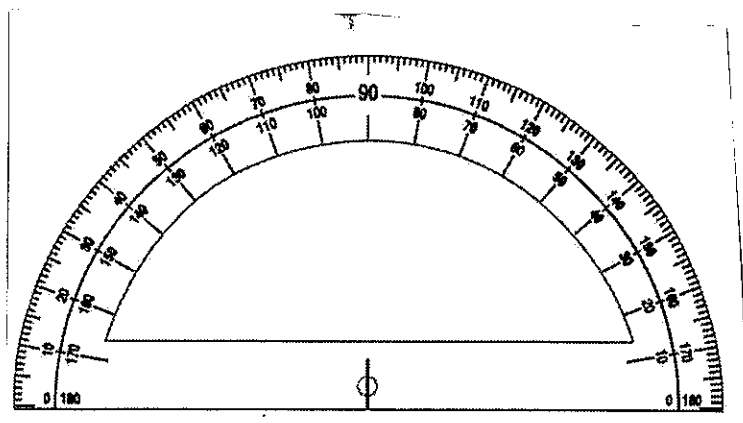
• 4,000 mg = _____ g

* Skip Topic 14



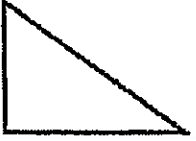
Topic 15

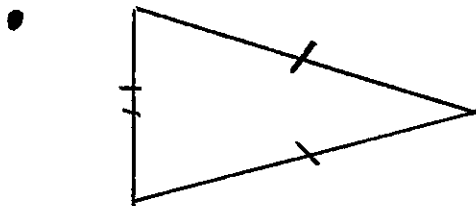
Student Work

Estimate the
angles

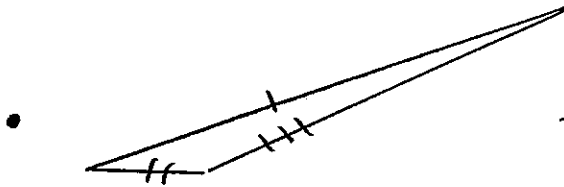


Topic 16

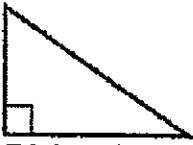

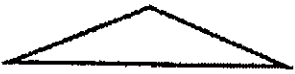
You can classify triangles by their sides.		
 Equilateral triangle Has 3 sides that are the same length.	 Isosceles triangle Has at least 2 sides that are the same length.	 Scalene triangle Has no sides that are the same length.

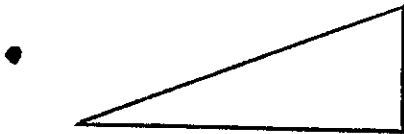


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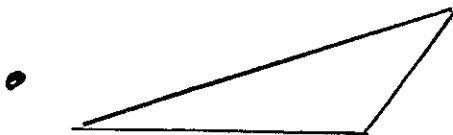


Type: _____

You can also classify triangles by their angles.		
 Right triangle Has 1 angle that is a right angle (90 degrees).	 Acute triangle Has all 3 angles that are acute angle (less than 90 degrees).	 Obtuse triangle Has 1 angle that is an obtuse angle (greater than 90 degrees).



Type: _____



Type: _____

Exponents

- $10^0 = 1$
- $10^1 = 10$
- $10^2 = 100$
- $10^3 = 1,000$

Student Work

- $5 \times 10^3 =$
- $10^5 \times 2 =$
- $9 \times 10^1 =$

Place Value

856,923

Place : Ten thousands

Value : 50,000

17,432,890

Place:

Value:

Comparing Decimals

• $9.327 > 9.238$

• $0.584 \bigcirc 0.58$

• $0.520 \bigcirc 5.2$

Rounding Decimals

• $0.145 = 0.15$

• $0.999 = 1$

• $73.4 =$

• $45.398 =$

Adding Decimals

- $8.6 + 23.4 + 1.4 = 33.4$

$$\begin{array}{r} 8.6 \\ 23.4 \\ 1.4 \\ \hline 33.4 \end{array}$$

- $27 + 9.9 = 36.9$

$$\begin{array}{r} 27.0 \\ 9.9 \\ \hline 36.9 \end{array}$$

- $98 + 3.79 =$

- $7.6 + 0.85 =$

Subtracting Decimals

- $15.01 - 4.2 = 10.81$

$$\begin{array}{r} 15.01 \\ - 4.20 \\ \hline 10.81 \end{array}$$

- $51.92 - 28.003 =$

- $24.07 - 5.361 = 18.709$

$$\begin{array}{r} 24.070 \\ - 5.361 \\ \hline 18.709 \end{array}$$

- $89 - 53.13 =$