

3rd 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)

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3RD GRADE TOPIC OVERVIEW:

TOPIC 1 – MULTIPLICATION & DIVISION OF WHOLE NUMBERS

TOPIC 2 – MULTIPLICATION FACTS (PATTERNS)

TOPIC 3 – MULTIPLICATION FACTS (3, 4, 6, 7, & 8)

TOPIC 4 – DIVISION FACTS

TOPIC 5 – MULTIPLY & DIVIDE WITHIN 100

TOPIC 6 – CONNECT AREA TO MULTIPLICATION

TOPIC 7 – REPRESENT & INTERPRET DATA (SKIPPED DUE TO TIME CONSTRAINTS)

TOPIC 8 – STRATEGIES TO ADD & SUBTRACT

TOPIC 9 – ADD & SUBTRACT WITHIN 1,000 (SKIPPED DUE TO TIME CONSTRAINTS)

TOPIC 10 – MULTIPLY BY MULTIPLES OF 10

TOPIC 11 – PROBLEM SOLVING (SKIPPED DUE TO TIME CONSTRAINTS)

TOPIC 12 – INTO TO FRACTIONS

TOPIC 13 – FRACTIONS – COMPARE AND EQUIVALENT

TOPIC 14 – SOLVE TIME, CAPACITY & MASS

TOPIC 15 – TWO DIMENSIONAL SHAPES

TOPIC 16 – PERIMETER (SKIPPED DUE TO TIME CONSTRAINTS)

4TH GRADE TOPIC PREVIEW:

TOPIC 1 – COMPARING NUMBERS, ROUNDING AND NUMBER FORMS

TOPIC 2 – ADDING & SUBTRACTING UP TO 5-DIGIT NUMBERS

Topics 1-5

Fact Families

Addition and Subtraction

3, 9, 6

- $3 + 6 = 9$
- $6 + 3 = 9$
- $9 - 6 = 3$
- $9 - 3 = 6$

Student Work

8, 15, 7

-
-
-
-

Multiplication + Division

4, 32, 8

- $4 \times 8 = 32$
- $8 \times 4 = 32$
- $32 \div 4 = 8$
- $32 \div 8 = 4$

Student Work

5, 45, 9

-
-
-
-

Topics 1-5 Cont,

* Odd or Even

• 9 odd

• 46 even

• 3,211 odd

Student Work

• 27: _____

• 198: _____

• 5,625 _____

Tips to help with multiplying your 6's,

Break 6 into 5 and 1

Ex: 6×8

• $5 \times 8 = 40$

• $1 \times 8 = 8$

$$\begin{array}{r} 40 \\ + 8 \\ \hline 48 \end{array}$$

• $7 \times 6 =$

7's:

Break the 7's into
5 and 2Example: 7×8

$$\cdot 5 \times 8 = 40$$

$$\cdot 2 \times 8 = 16$$

$$\begin{array}{r} 40 \\ + 16 \\ \hline 56 \end{array}$$

$$\cdot 7 \times 7 =$$

4's: Break the 4 into
2 and 2Example 4×8

$$\cdot 2 \times 8 = 16$$

$$\cdot 2 \times 8 = 16$$

$$\begin{array}{r} 16 \\ + 16 \\ \hline 32 \end{array}$$

$$\cdot 4 \times 7 =$$

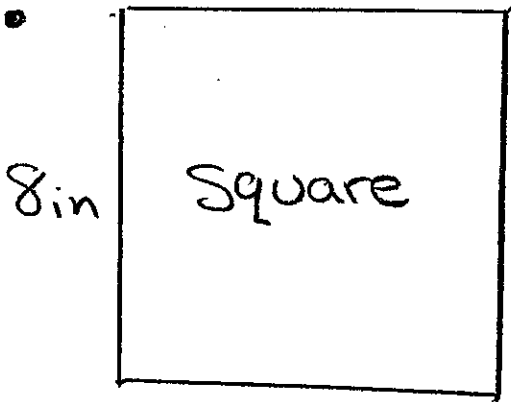
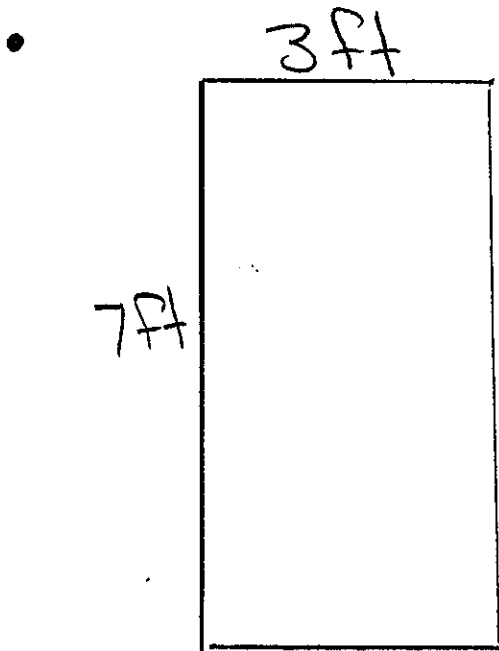
Problems multiplying
your 8's?What are some
strategies to use?

$$\cdot 8 \times 7 =$$

Topic 6

Find the area and perimeter of regular shapes,

Student Work



$$A = L \times w$$

$$A = 7 \times 3$$

$$A = 21 \text{ sq ft}$$

$$P = L + w + L + w$$

$$P = 7 + 3 + 7 + 3$$

$$P = 20 \text{ ft}$$

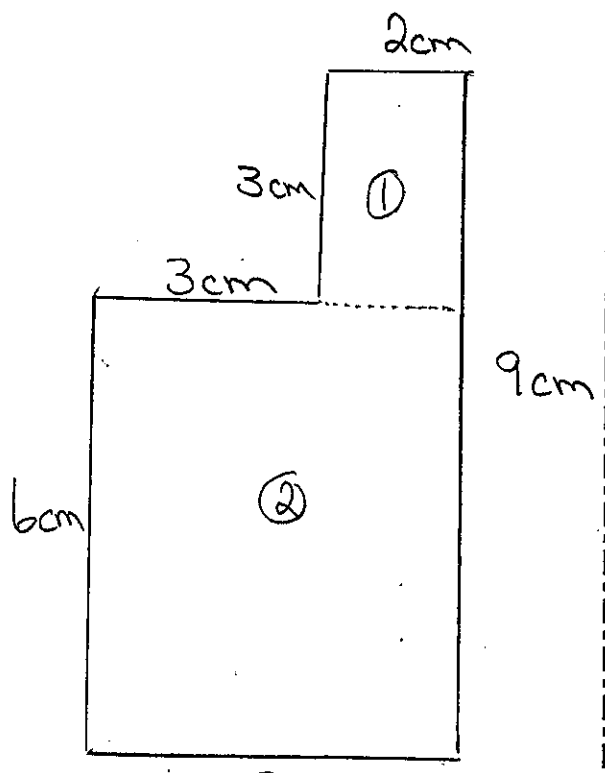
$$A =$$

$$P =$$

Topic 6 Con't

Irregular Shapes

Hint: Break into two regular shapes then add areas



$$P = 6 + 5 + 9 + 2 + 3 + 3$$

$$A = L \times W$$

$$P = 28 \text{ cm}$$

Figure 1:
 $A = 2 \times 3$

$$A = 6$$

Figure 2:

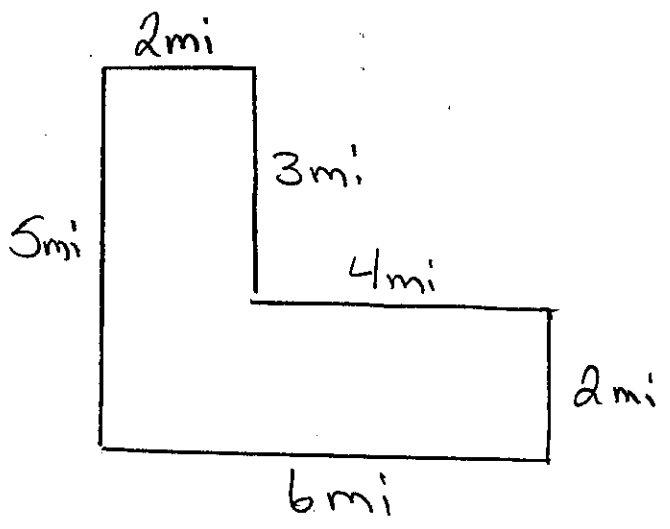
$$A = 6 \times 5$$

$$A = 30$$

$$A = 30 + 6$$

$$A = 36 \text{ sq cm}$$

Student Work



$$A =$$

$$P =$$

* No Topic 7

Topic 8

Addition

• $302 + 56 =$

$$\begin{array}{r} 302 \\ + 56 \\ \hline 358 \end{array}$$

• $\begin{array}{r} \overset{1}{} \overset{1}{} \\ 689 \\ + 422 \\ \hline 1,111 \end{array}$ (carry)

Student Work

• $\begin{array}{r} 463 \\ + 481 \\ \hline \end{array}$

• $222 + 725 =$

• $\begin{array}{r} 999 \\ + 99 \\ \hline \end{array}$

Topic 8. Con't

Subtraction

$$\begin{array}{r}
 716 \\
 863 \\
 - 571 \\
 \hline
 292
 \end{array}$$

(borrow)

$$\begin{array}{r}
 573 \\
 - 291 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 400 - 227 = \\
 3910 \\
 400 \\
 - 227 \\
 \hline
 173
 \end{array}$$

(borrow)

$$800 - 279 =$$

$$\begin{array}{r}
 16 \\
 3615 \\
 473 \\
 - 186 \\
 \hline
 289
 \end{array}$$

(borrow)

$$\begin{array}{r}
 956 \\
 - 777 \\
 \hline
 \end{array}$$

*No Topic 9

Topic 10

Multiplying

- $30 \times 3 = 90$
- $3 \times 300 = 900$

- $6 \times 50 = 300$

- $5 \times 50 = 250$
- $50 \times 50 = 2500$
- $500 \times 500 = 250,000$

Hint: Multiply the base facts and add the correct amount of zero's

Student Work

- $70 \times 4 =$
- $4 \times 700 =$

- $5 \times 40 =$

- $90 \times 90 =$
- $900 \times 90 =$

* No Topic 11

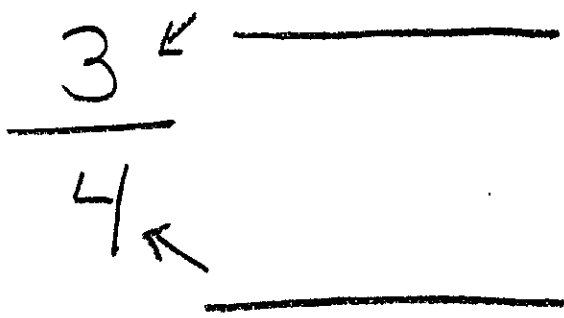
Topic 12

Fractions

Student Work

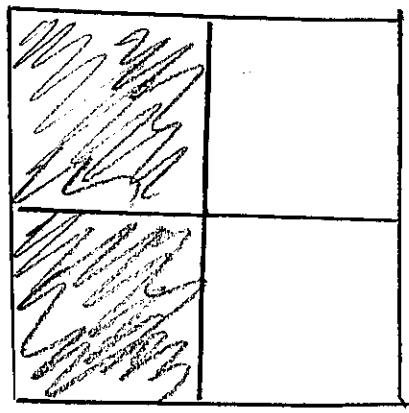
- Numerator
- part of the whole
- Denominator
- total parts in the whole

Use these words to fill in the student work section.

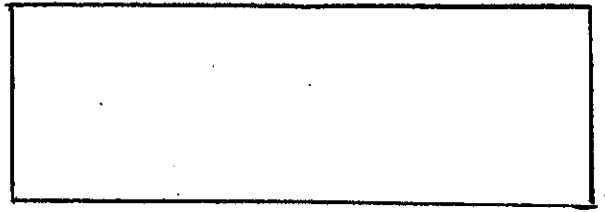


Create the following fractions:

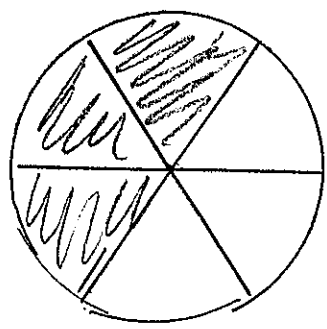
Student Work



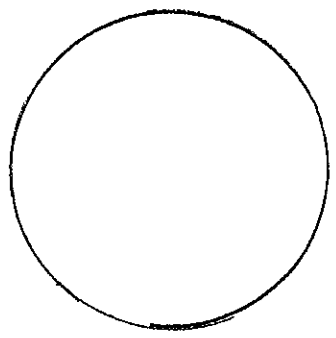
$$\frac{2}{4}$$



$$\frac{2}{3}$$



$$\frac{3}{6}$$



$$\frac{3}{8}$$

9

Topic 13

Equivalent Fractions

- Can always be found by multiplying
- Can sometimes be found by dividing

$$\bullet \frac{2 \times 2}{3 \times 2} = \frac{4}{6} \text{ no dividing}$$

$$\bullet \frac{1 \times 3}{4 \times 3} = \frac{3}{12} \text{ no dividing}$$

$$\bullet \frac{1 \times 5}{2 \times 5} = \frac{5}{10} \text{ no dividing}$$

$$\bullet \frac{2 \times 2}{4 \times 2} = \frac{4}{8}$$

$$\frac{2 \div 2}{4 \div 2} = \frac{1}{2}$$

$$\bullet \frac{5 \times 2}{15 \times 2} = \frac{10}{30}$$

$$\frac{5 \div 5}{15 \div 5} = \frac{1}{3}$$

Student Work

$$\bullet \frac{4}{5} = \frac{8}{\square}$$

$$\bullet \frac{3}{6} = \frac{9}{\square}$$

$$\bullet \frac{5}{10} =$$

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

$$\bullet \frac{1}{3} =$$

Write two equivalent fractions for $\frac{4}{8}$

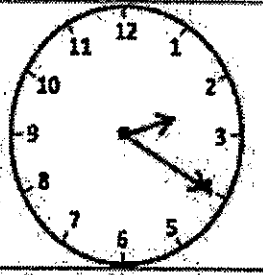
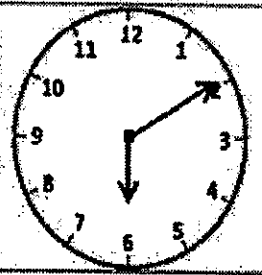
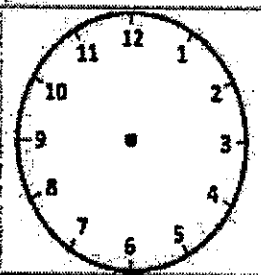
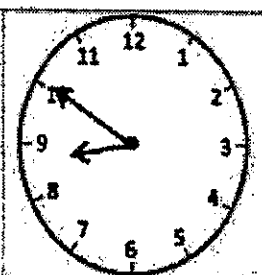
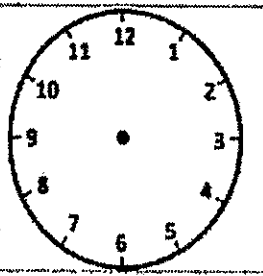
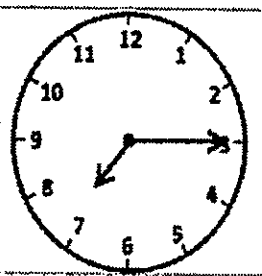
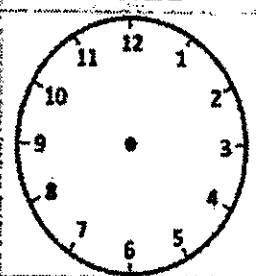
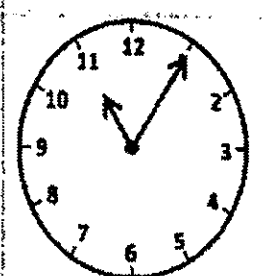
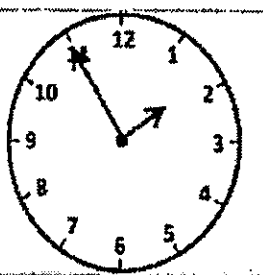
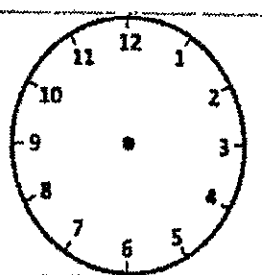
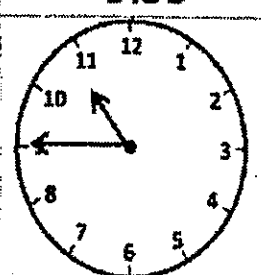
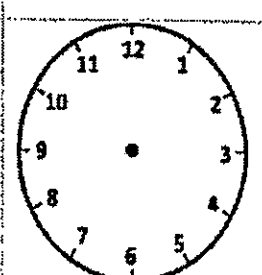
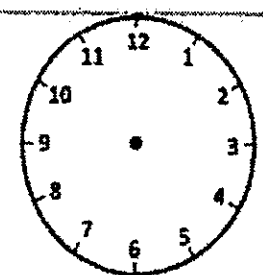
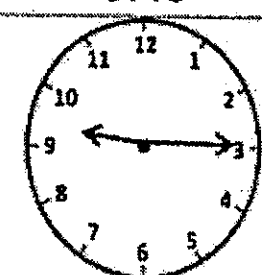
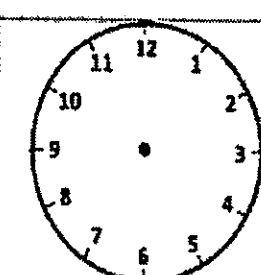
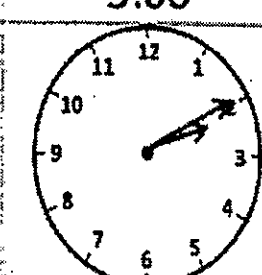
x:

÷:

Topic 14

Telling Time






Draw the hands for the correct time or write the correct time

			
2:20		4:25	
			
12:30		9:35	
			
3:40		5:00	
			
7:35		12:50	

Topic 15

What is a
Quadrilateral?

Student Work
Draw another
example.

Type	Properties
Parallelogram 	<ul style="list-style-type: none">• Opposite sides are equal and parallel• Opposite angles are equal
Rectangle 	<ul style="list-style-type: none">• Opposite sides are equal and parallel• All angles are right angles (90°)
Square 	<ul style="list-style-type: none">• Opposite sides are parallel• All sides are equal• All angles are right angles (90°)
Rhombus 	<ul style="list-style-type: none">• Opposite sides are parallel• All sides are equal• Opposite angles are equal• Diagonals bisect each other at right angles (90°)
Trapezoid 	<ul style="list-style-type: none">• One pair of opposite sides is parallel

Parallelogram

Rectangle

Square

Rhombus

Trapezoid

4th Grade Preview

Greater than / Less than
Equal to

Student Work

• 291,846 \lt 291,864

• 88,645 \bigcirc 87,645

\gt greater than

\lt less than

$=$ equal to

Rounding

Round to the nearest underlined place

• 166,742 = 170,000

• 76,532 = 77,000

• 14,921 = 14,900

• 83,491 =

• 65,489 =

• 891,648 =

Number Forms

832

749

• Word form =
Eight hundred Thirty-two

word form =

• Expanded form =
800 + 30 + 2

standard form =

• Standard form =
832

Expanded form =

Preview Con't

Multi-digit Addition

$$\begin{array}{r} \\ \\ \\ \\ \hline \end{array}$$

Student Work

$$\begin{array}{r} \bullet \\ \\ \hline \end{array}$$

• 652,198 + 49,753 =

Multi-digit Subtraction

$$\begin{array}{r} \\ \\ \hline \end{array}$$

$$\begin{array}{r} \bullet \\ \\ \hline \end{array}$$

$$\begin{array}{r} \\ \\ \hline \end{array}$$

$$\begin{array}{r} \bullet \\ \\ \hline \end{array}$$