

Dear Rising Grade 5 Students:

We thank you for your hard work in Grade 4 this year! In this packet, you will find essential IXL skills to practice and some extra worksheets on math topics that are important to secure as you enter Grade 5! Be sure you practice these skills throughout the summer so these skills stay fresh as you enter Upper School. Have a great summer, relax, recharge, and have fun!

Sincerely,

Mr. Rosenberg and Mr. Andersen



**Summer IXL Skills:** During each week of summer, please try to practice the following IXL skills. An average of 10 minutes per day or an hour a week will keep you sharp with these content areas and have you ready for Upper School. Please note that IXL updates its skill list frequently, so the skill code numbers may change over the summer, but the skill descriptions will not. If you having trouble locating a skill, just search the description on the website or app. If you have already achieved 100% on the suggested skills, please feel free to do another skill under that same letter section or work on areas where you feel confident.

Code	Description
A.13	<a href="#"><u>Writing numbers up to one million in words: convert digits to words</u></a>
A.19	<a href="#"><u>Prime and composite: up to 100</u></a>
A.21	<a href="#"><u>Rounding: up to millions place</u></a>
B.4	Add two numbers up to seven digits: word problems
B.7	Add 3 or more numbers up to millions
C.4	<a href="#"><u>Subtract numbers up to seven digits: word problems</u></a>
D.7	<a href="#"><u>Identify factors</u></a>
D.9	Find all the factor pairs of a number
D.22	<a href="#"><u>Multiply 1-digit numbers by 3-digit or 4-digit numbers</u></a>
D.44	<a href="#"><u>Multiply a 2-digit number by a 2-digit number: multi-step word problems</u></a>
E.3	<a href="#"><u>Division facts to 12</u></a>
E.18	Divide larger numbers by 1-digit numbers: word problems
F.13	Multi-step word problems involving remainders
F.17	Write numerical expressions: one operation
M.9	Conversion tables - customary units
M.18	<a href="#"><u>Conversion tables - metric units</u></a>
Q.7	<a href="#"><u>Add and subtract fractions with unlike denominators: word problems</u></a>
R.9	<a href="#"><u>Multiply fractions by whole numbers using models: complete the equation</u></a>
S.5	<a href="#"><u>Place values in decimal numbers</u></a>
S.19	<a href="#"><u>Put decimal numbers in order I</u></a>

Name: \_\_\_\_\_

## Improper Fractions & Mixed Numbers

Write each mixed number as an improper fraction

a.  $2 \frac{1}{4} =$

b.  $8 \frac{3}{8} =$

c.  $2 \frac{5}{6} =$

d.  $4 \frac{1}{2} =$

e.  $5 \frac{1}{3} =$

f.  $10 \frac{7}{12} =$

g.  $9 \frac{1}{4} =$

h.  $6 \frac{5}{6} =$

i.  $7 \frac{5}{6} =$

j.  $10 \frac{3}{7} =$

k.  $11 \frac{1}{3} =$

l.  $20 \frac{1}{2} =$

Write each improper fraction as a mixed number.

m.  $\frac{7}{5} =$

n.  $\frac{9}{4} =$

o.  $\frac{5}{3} =$

p.  $\frac{22}{9} =$

q.  $\frac{13}{7} =$

r.  $\frac{9}{2} =$

s.  $\frac{17}{9} =$

t.  $\frac{7}{3} =$

u.  $\frac{17}{7} =$

v.  $\frac{10}{3} =$



- w. Mrs. Jones bakes pies. She always cuts each pie into 8 slices. There are 13 slices left on the counter. Write the number of pies on the counter as a mixed number and as an improper fraction.
- \_\_\_\_\_

# Multiplication

a.

$$\begin{array}{r} 68 \\ \times 92 \\ \hline \end{array}$$



b.

$$\begin{array}{r} 71 \\ \times 33 \\ \hline \end{array}$$

c.

$$\begin{array}{r} 98 \\ \times 93 \\ \hline \end{array}$$

d.

$$\begin{array}{r} 50 \\ \times 12 \\ \hline \end{array}$$

e.

$$\begin{array}{r} 64 \\ \times 47 \\ \hline \end{array}$$



f.

$$\begin{array}{r} 45 \\ \times 38 \\ \hline \end{array}$$

g.

$$\begin{array}{r} 80 \\ \times 80 \\ \hline \end{array}$$

h.

$$\begin{array}{r} 79 \\ \times 23 \\ \hline \end{array}$$

i.

$$\begin{array}{r} 87 \\ \times 76 \\ \hline \end{array}$$

j.

$$\begin{array}{r} 30 \\ \times 18 \\ \hline \end{array}$$



k.

$$\begin{array}{r} 51 \\ \times 49 \\ \hline \end{array}$$

Name: \_\_\_\_\_

## Comparing Fractions



1. Jenny had a pizza that was divided into 8 equal slices. She ate 3 of them.

Danny has a pizza that is the same size, but his is divided into 4 equal slices. He ate 3 slices of his pizza.

Who ate more pizza?

answer: \_\_\_\_\_

2. Kim made two pies that were exactly the same size. The first pie was a cherry pie, which she cut into 6 equal slices. The second was a pumpkin pie, which she cut into 12 equal pieces.

Kim takes her pies to a party. People eat 3 slices of cherry pie and 6 slices of pumpkin pie.

Did people eat more cherry pie or pumpkin pie?

answer: \_\_\_\_\_

3. Jarred has two cakes that are the same size. The first cake was chocolate, which he cut into 12 equal parts. The second cake was marble, which he cut into 6 equal parts.

His family eats 5 slices of chocolate cake and 3 slices of marble cake.

Did they eat more chocolate cake or marble cake?

answer: \_\_\_\_\_

4. Jeremy bakes two pans of brownies that are the same size. One pan has nuts in it and the other pan does not. He cuts the pan with nuts into 8 equal pieces. He cuts the pan without nuts into 16 equal pieces.

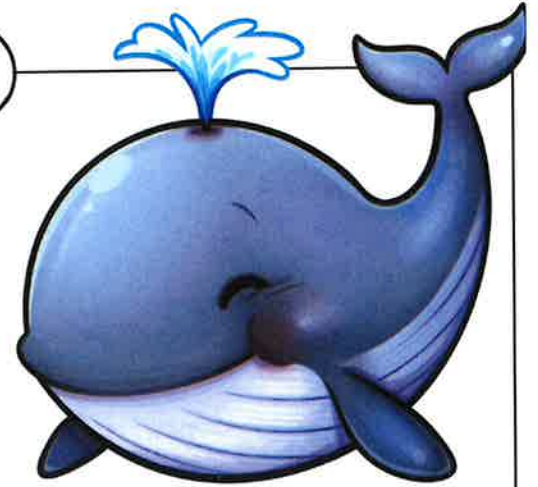
His friends eat 2 brownies with nuts and 3 brownies without nuts.

Did they eat more of the brownies with nuts or without nuts?

answer: \_\_\_\_\_

Name: \_\_\_\_\_

# Long Division



a.  $6 \overline{) 1,892}$

b.  $4 \overline{) 1,547}$

c.  $3 \overline{) 2,351}$

d.  $5 \overline{) 3,282}$

e.  $7 \overline{) 2,309}$

f.  $3 \overline{) 3,134}$

g.  $9 \overline{) 8,402}$

h.  $8 \overline{) 8,293}$

- i. An average-sized gray whale eats 9,849 pounds of plankton per week. On average, how much does it eat per day?

Show your work and label your answer.

\_\_\_\_\_

Name: \_\_\_\_\_

# Adding Mixed Numbers

with the Like Denominators, Requires Simplifying

$\begin{array}{r} 3\frac{3}{8} \\ + 2\frac{1}{8} \\ \hline \end{array}$	$\begin{array}{r} 3\frac{3}{8} \\ + 2\frac{1}{8} \\ \hline \end{array}$	$\begin{array}{r} 3\frac{3}{8} \\ + 2\frac{1}{8} \\ \hline 5\frac{4}{8} \end{array}$	$\begin{array}{r} 3\frac{3}{8} \\ + 2\frac{1}{8} \\ \hline 5\frac{4}{8} \end{array}$	$\begin{array}{r} 3\frac{3}{8} \\ + 2\frac{1}{8} \\ \hline 5\frac{4}{8} = 5\frac{1}{2} \end{array}$
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Add the fractions and simplify the answers.

a. 
$$\begin{array}{r} 5\frac{2}{6} \\ + 4\frac{2}{6} \\ \hline \end{array}$$

b. 
$$\begin{array}{r} 6\frac{1}{4} \\ + 1\frac{1}{4} \\ \hline \end{array}$$

c. 
$$\begin{array}{r} 3\frac{2}{10} \\ + 5\frac{3}{10} \\ \hline \end{array}$$

d. 
$$\begin{array}{r} 3\frac{2}{8} \\ + 6\frac{4}{8} \\ \hline \end{array}$$

e. 
$$\begin{array}{r} 3\frac{2}{9} \\ + 1\frac{1}{9} \\ \hline \end{array}$$

f. 
$$\begin{array}{r} 2\frac{3}{12} \\ + \frac{1}{12} \\ \hline \end{array}$$

g. 
$$\begin{array}{r} 1\frac{3}{10} \\ + 5\frac{5}{10} \\ \hline \end{array}$$

h. 
$$\begin{array}{r} 2\frac{3}{14} \\ + 1\frac{3}{14} \\ \hline \end{array}$$

i. 
$$\begin{array}{r} \frac{1}{6} \\ + 4\frac{2}{6} \\ \hline \end{array}$$

j. 
$$\begin{array}{r} 2\frac{1}{8} \\ + 4\frac{1}{8} \\ \hline \end{array}$$

k. 
$$\begin{array}{r} 2\frac{2}{9} \\ + 3\frac{4}{9} \\ \hline \end{array}$$

l. 
$$\begin{array}{r} 1\frac{3}{12} \\ + 1\frac{3}{12} \\ \hline \end{array}$$

m. 
$$\begin{array}{r} 6\frac{4}{10} \\ + 2\frac{2}{10} \\ \hline \end{array}$$

n. 
$$\begin{array}{r} 5\frac{6}{14} \\ + \frac{4}{14} \\ \hline \end{array}$$

o. 
$$\begin{array}{r} 1\frac{2}{12} \\ + 7\frac{4}{12} \\ \hline \end{array}$$

- p. Tom's family ate  $1\frac{2}{8}$  apple pies.  
 Susie's family ate  $1\frac{4}{8}$  cherry pies.  
 How much pie did both families eat?