

## Table of Contents

Tips for Using These Assessments	<u>Page Numbers</u> 3
Number and Operations - Fractions Assessments Standards Achievement Graphs and Charts Number and Operations in Base Ten Answer Key	4 - 17 18 - 22 23 - 24
Thank You and The Fine Print	25

\* Please note - If you need assessments for other 4th Grade Common Core Math Standards you can find them here -<u>http://www.teachers.payteachers.com/Store/Math-Mojo/Category/Assessments</u>

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## Using The Assessments

This pack contains 2 assessments for each of the 4th Grade Common Core Math Standards. The first assessment is a "Skills Check". It is a 4 question assessment designed to assess students ability to perform the skills from the standard, for example comparing fractions or converting a fraction to a decimal.

The second assessment is called a "Performance Check". This assessment is 2 questions and has students perform a task, solve a problem, and/or use higher order thinking skills. You can use both assessments together or use them separately.



There are 3 ways to track student achievement when using these assessments.

The tracking options include the following:

- \* Individual Student Graphs Students can track the percent correct on each assessment with a bar graph (students can fill these out)
- \* Individual Student Charts You can chart individual student data on the individual standards
- \* Class Data Chart Chart the progress of your class and have all the student's data in one place



This data can be used in multiple ways. Teachers can use it to discover class trends, to group students for enrichment or remediation, or to select topics for reteaching and review. The data can be gathered relatively quickly and can be used as a "quick check" before testing or it can be used to assess how well a student mastered a standard. A unique feature of this assessment is that you can look at students ability to perform a skill (Skills Checks) and a student's ability to apply the skill (Performance Checks). Often that helps to determine the type of remediation/reteaching that a student or class needs.







Math Assessment

Skills Check



**4.NF.2** Compare two fractions with different numerators and different denominators, e.g., by creating common denominators or numerators, or by comparing to a benchmark fraction such as 1/2. Recognize that comparisons are valid only when the two fractions refer to the same whole. Record the results of comparisons with symbols >, =, or <, and justify the conclusions, e.g., by using a visual fraction model.

Date Name 1. Compare using 2. Compare using < , >, or =. < , >, or =. <u>2</u> R 3 <sup>3.</sup> Jessie got  $\frac{2}{3}$  of a <sup>4.</sup> Which statement is candy bar. Luke true? got  $\frac{1}{6}$  of the same A.  $\frac{1}{3} < \frac{2}{8}$ candy bar. Who got more of the candy **B.**  $\frac{2}{4} > \frac{3}{6}$ bar? C.  $\frac{3}{6} < \frac{2}{3}$ **D.**  $\frac{1}{2} > \frac{2}{3}$ 

	aenominators or numerators, or by comparing to a benchmark traction such as 1/2. Recognize that comparisons are valid only when the two fractions refer to the same whole. Record the results of comparisons with symbols >, =, or <, and justify the conclusions, e.g., by using a visual fraction model.
ne .	Date
1.	Which is greater $\frac{4}{6}$ or $\frac{3}{4}$ ? Explain how you know using pictures, words, or numbers.
	<u>1</u>
2.	Samantha and Ryan shared a pizza. Samantha ate $_3$ of the pizza. Ryan ate $\frac{2}{8}$ of the pizza. Who ate more? Explain how you know using pictures, words, or numbers.



	<b><u>4.NF.3</u></b> Understand a fraction a/b with a > 1 as a sum of fractions 1/b.
ne	Date
1. When mixed pictur	two mixed numbers are added together they equal $3\frac{3}{4}$ . What two number could they be? Explain how you got your answer using es, words, or numbers.
2. The N wants How 1 conta words	Ars. Potter has 7 containers of blue paint. Each container is $\frac{3}{4}$ full. She is to combine the paint and make as many full containers as possible. many containers can she fill up completely? What fraction of a iner will be left? Explain how you got your answer using pictures, s, or numbers.



10			D	ite
L. The Rive times. H answer (	er Cities joggin ow many miles using pictures, w	g trail is $\frac{2}{3}$ of a did she run in a ords, or numbers	mile. Kate ran a Ill? Explain how y	round the trail 6 ou got your
2. Cara tol correct? numbers	d her mother t 'Explain how y	hat $\frac{5}{8}$ is the sar ou got your answ	me as amount as er using pictures	5 x $\frac{1}{8}$ . Is she words, or



	<b><u>Performance Check</u></b> <u><b>4.NF.5</b></u> Express a fraction with denominator 10 as an equivalent fraction with denominator 100, and use this technique to add two fractions with respective denominators 10 and 100.
ame	Date
1.	On a test Max got $\frac{8}{10}$ of the questions correct. Michelle got $\frac{80}{100}$ of the questions correct. Max said that these two scores are equivalent. Is he correct? Explain how you got your answer using models, words, or numbers.
2.	Juanita sold $\frac{4}{10}$ of the cookies in a bake sale. Morgan sold $\frac{25}{100}$ of the cookies in the fundraiser. What fraction of the cookies did they sell combined? Explain how you got your answer using models, words, or numbers.







Math Assessment



**<u>4.NF.7</u>** Compare two decimals to hundredths by reasoning about their size. Recognize that comparisons are valid only when the two decimals refer to the same whole. Record the results of comparisons with the symbols >, =, or <, and justify the conclusions, e.g., by using a visual model.

Skills Check

Name	Date
<sup>1.</sup> Compare using < , >, or =	<sup>2.</sup> Compare using < , >, or =
0.39 0.5	0.79 0.82
3. It took Marcus 0.65 of a minute to run a sprint race and it took Jamie 0.50 of a minute to run a sprint race. Who ran the fastest?	4. Sunnyville got 0.32 cm of rain in July. Surf City got 0.7 cm of rain in July. Which city got more rain in July?

( <u>4.NF.7</u> Compa	re two decimals to hundredths by	reasoning about their size. Re	cognize that
comparisons are va	lid only when the two decimals re the symbols $\lambda = or < and justify$	fer to the same whole. Record the conclusions, e.g., by using	the results of visual model
		Date	
Lila says that	0.25 is more than 0.4.	Is she correct? Exp	lain your
answer using	models, words, or numb	pers.	
Tassia livas 1.3	miles from school Mar	ria livas 1 17 milas fr	om school
Who lives close	er to school? Explain vo	our answer using mo	dels. words.
or numbers.		an allower acting me	

## Standards Achievement Graph Number & Operations - Fractions



## Standards Achievement Graph Number & Operations - Fractions



## Standards Achievement Chart Number & Operations – Fractions

Nare\_\_\_\_\_

Standard	Score
<b><u>4.NF.1</u></b> Explain why a fraction $a/b$ is equivalent to a fraction $(n \times a)/(n \times b)$ by using visual fraction models, with attention to how the number and size of the parts differ even though the two fractions themselves are the same size.	
<b>4.NF.2</b> Compare two fractions with different numerators and different denominators, e.g., by creating common denominators or numerators, or by comparing to a benchmark fraction such as 1/2. Recognize that comparisons are valid only when the two fractions refer to the same whole. Record the results of comparisons with symbols >, =, or <, and justify the conclusions, e.g., by using a visual fraction model.	
<b><u>4.NF.3</u></b> Understand a fraction a/b with a > 1 as a sum of fractions 1/b.	
<b><u>4.NF.4</u></b> Apply and extend previous understandings of multiplication to multiply a fraction by a whole number.	
<b><u>4.NF.5</u></b> Express a fraction with denominator 10 as an equivalent fraction with denominator 100, and use this technique to add two fractions with respective denominators 10 and 100.	
<b><u>4.NF.6</u></b> Use decimal notation for fractions with denominators 10 or 100.	
<b><u>4.NF.7</u></b> Compare two decimals to hundredths by reasoning about their size. Recognize that comparisons are valid only when the two decimals refer to the same whole. Record the results of comparisons with the symbols >, =, or <, and justify the conclusions, e.g., by using a visual model.	

Notes\_\_\_\_\_

## Standards Achievement Chart Number & Operations – Fractions

Nare\_\_\_\_\_

Standard	Skills Score	Performance Score
<b><u>4.NF.1</u></b> Explain why a fraction $a/b$ is equivalent to a fraction $(n \times a)/(n \times b)$ by using visual fraction models, with attention to how the number and size of the parts differ even though the two fractions themselves are the same size.		
<b>4.NF.2</b> Compare two fractions with different numerators and different denominators, e.g., by creating common denominators or numerators, or by comparing to a benchmark fraction such as $1/2$ . Recognize that comparisons are valid only when the two fractions refer to the same whole. Record the results of comparisons with symbols >, =, or <, and justify the conclusions, e.g., by using a visual fraction model.		
<b><u>4.NF.3</u></b> Understand a fraction $a/b$ with $a > 1$ as a sum of fractions $1/b$ .		
<b><u>4.NF.4</u></b> Apply and extend previous understandings of multiplication to multiply a fraction by a whole number.		
<b><u>4.NF.5</u></b> Express a fraction with denominator 10 as an equivalent fraction with denominator 100, and use this technique to add two fractions with respective denominators 10 and 100.		
<b><u>4.NF.6</u></b> Use decimal notation for fractions with denominators 10 or 100.		
<b><u>4.NF.7</u></b> Compare two decimals to hundredths by reasoning about their size. Recognize that comparisons are valid only when the two decimals refer to the same whole. Record the results of comparisons with the symbols >, =, or <, and justify the conclusions, e.g., by using a visual model.		

<u>Notes\_\_\_\_</u>

## Class Achievement Chart Number & Operations - Fractions

Student Name	4.NF.1	4.NF.2	4.NF.3	4.NF.4	4.NF.5	4.NF.6	4.NF.7
1.							
2.							
3.							
4.							
5.							
6.							
7.							
8.							
9.							
10.							
11.							
12.							
13.							
14.							
15.							
16.							
17.							
18.							
19.							
20.							
21.							
22.							
23.							
24.							
25.							
26.							
27.							
28.							

### Number and Operations Fractions Answer Key

<u>10</u>

20

<u>10</u> 30

4.NF.1 Skills Check

1.	=							
2.	¥							
3. /	Answ	ers w	vill va	ry (S	ample	Ans	wers)	
	2	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>
	4	6	8	10	12	14	16	18
	_				_			
4. <i>I</i>	Answ	ers w	vill va	ıry (Sa	ample	Ans	wers)	
	2	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>
	6	9	12	15	5 18	21	24	27

#### 4.NF.1 Performance Check

1.	Ansv	vers	will	vary	(Sam	ple	Answ	ers)	
	~		-	~	-	~	~		

<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>
6	8	10	12	14	16	18	20

2. Answers will vary (Sample Answers)

4	<u>6</u>	<u>8</u>	<u>10</u>	<u>12</u>	<u>14</u>	<u>16</u>	<u>18</u>	<u>10</u>
6	8	12	15	18	21	24	27	30

#### 4.NF.2 Skills Check

- 1.>
- 2. <
- 3. Jessie got more
- 4. C

#### 4.NF.2 Performance Check

- 1. 3/4 is greater. Explanations will vary. Students may draw a picture or model to illustrate the comparison. Students may also use a mathematical model or explain in words.
- 2. 1/3 is greater. Explanations will vary. Students may draw a picture or model to illustrate the comparison. Students may also use a mathematical model or explain in words.

#### 4.NF.3 Skills Check

1.	-	<u>1</u> + 6	<u>1</u> 6	+	<u>1</u> 6	+	<u>1</u> 6	+ <u>1</u> 6	= <u>5</u> 6	
2. <u>1</u> 4	Ans + <u>1</u> 4	wer: +	s wil <u>1</u> 4	va +	ary <u>1</u> 4	(sa + <u>1</u> 4	mpl <u>l</u> +	e ans <u>1</u> + 4	swers - <u>1</u> 4	;)
<u>2</u> 4	+ <u>1</u> 2	L + 1	<u>1</u> 4	+	<u>1</u> 4	+	<u>1</u> + 4	<u>1</u> 4		
<u>3</u> 4	+ 1/4	+	<u>1</u> 4	+	<u>1</u> 4	+ 1	<u> </u> 			

#### 4.NF.3 Skills Check (cont.)

3.  $\frac{2}{6}$ 4.6  $\frac{3}{4}$ 

#### 4.NF.3 Performance Check

1. Answers will vary (Sample Answer)

 $1\frac{2}{4} + 2\frac{1}{4} = 3\frac{3}{4}$ 

2. 5 containers will be completely full  $\frac{1}{4}$  of a container left over

Answers will vary students may draw fraction models, decompose and recompose the fractions, or use a different strategy

#### 4.NF.4 Skills Check

1.	<u>16</u> 3	or $5\frac{1}{3}$	
2.	<u>12</u> 6	or <b>2</b>	
3.	<u>28</u> 5	or $5\frac{3}{5}$	
4.	<u>15</u> 4	or $3\frac{3}{4}$	

#### **4.NF.4 Application Check**

1.  $\frac{12}{3}$  or 4 miles

Answers will vary students may draw fraction models, decompose and recompose the fractions, or use a different strategy

2. She is correct. Explanations will vary. Students can use an algorithm to show how they are equal, the student may make a drawing or use a model

## Number and Operations Fractions Answer Key

#### 4.NF.5 Skills Check

- 1. <u>60</u> 1. 100
- 2. <u>4</u> 10
- 3. <u>49</u>
- <sup>3.</sup> 100
- 4 <u>26</u> 4 100

#### 4.NF.5 Performance Check

1. The fractions are equivalent Explanations will vary. Students may use pictures, models, or numbers to justify their answers

#### 2. <u>65</u>

100

Explanations will vary. Students may use pictures, models, or numbers to justify their answers

4.NF.6 Skills Check	J	K	L	М						
2. 0.9 3. T <sup>11</sup> 4. 0.87		12	2		13					
Which letter is at 12 4/8? <u>4.NF.6 Performance Check</u> 1. Both students are correct Explanations will vary. Students may use pictures, models, or numbers to justify their answers										
2. $\begin{array}{c c} 22\\ 100\\ \hline 10\\ \hline 1$	0.7	5	M	Ο	Ρ					
Which letter is at	Which letter is at 16.6?									
<b>4.NF.7 Skills Check</b> 1. < 2. <	0	F	C							
3. Jamie ran it fastest. 0.5 is	less t	han 0.65								

4. Surf City got more rain

#### 4.NF.7 Performance Check

- 1. She is not correct, 0.4 is more. Explanations will vary. Students may use pictures, models, or numbers to justify their answers
- 2. Marie lives closer because 1.17 is a smaller number. Students may use pictures, models, or numbers to justify their answers

Fold Here

Μ

Fold Here

Ρ

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http://www.teacherspayteachers.com/Product/FUNdamental-Fractionand-Decimal-Games

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http://www.teacherspay.teachers.com/Product/Fun-Friday-Math-Games-Quarter-1

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\_http://www.teacherspayteachers.com/Product/4th-Grade-Common-Core-Math-Review-Game-Mega-Bundle-All-Pomains-and-Standards

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