Steady Steps Maths

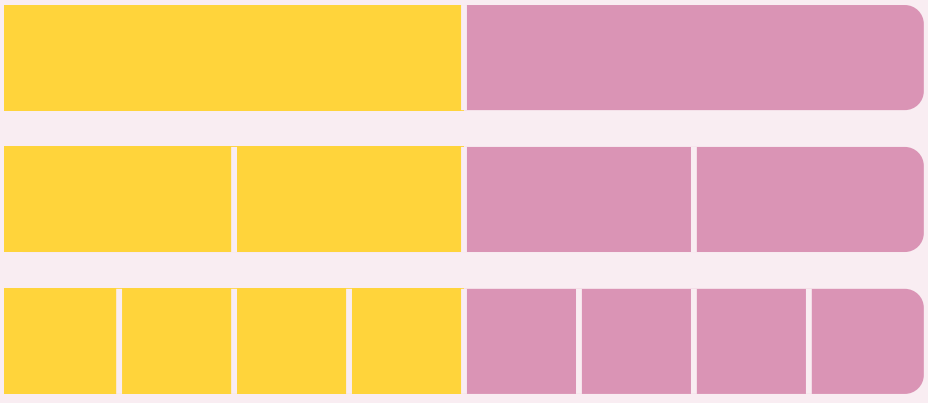
FREE SAMPLE WORKSHEET · TOPIC 5

FREE SAMPLE

Equivalent & Comparing Fractions

Free sample worksheet · with answers

GRADE 4



1/2 = 2/4 = 4/8

Common Core 4.NF.A.1–2

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Quick recap

The big idea from each pack in this topic. Read it first, then try the questions.

Learn it · Pack 1 · Equivalent fractions

Multiply (or divide) the numerator and the denominator by the same number.

$\frac{4}{5} = \frac{8}{10}$ (× 2 on top and bottom)

Learn it · Pack 2 · Comparing fractions

Give them the same denominator, or compare each one with $\frac{1}{2}$.

$\frac{5}{6} = \frac{10}{12} > \frac{7}{12}$, so $\frac{5}{6} > \frac{7}{12}$

PACK 1 Equivalent Fractions

1 Find the missing number:
$\frac{3}{4} = \frac{\square}{8}$

Answer

2 Find the missing number:
$\frac{5}{6} = \frac{10}{\square}$

Answer

3 Write two fractions that are equal to $\frac{3}{4}$.

Answer

4 Multiply the numerator and denominator of $\frac{2}{3}$ by 4. What do you get?

Answer

5 Are $\frac{4}{10}$ and $\frac{2}{5}$ equivalent? Explain.

Answer

6 Are $\frac{3}{8}$ and $\frac{6}{12}$ equivalent? Explain.

Answer

7 Write $\frac{60}{100}$ in tenths.

Answer

8 Which is the odd one out?
$\frac{1}{2}$, $\frac{3}{6}$, $\frac{4}{8}$, $\frac{5}{12}$

Answer

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PACK 2

Comparing Fractions

9 Write <, > or =
$\frac{5}{12} \square \frac{7}{12}$

Answer

10 Write <, > or =
$\frac{4}{5} \square \frac{4}{8}$

Answer

11 Is $\frac{3}{8}$ more or less than $\frac{1}{2}$?

Answer

12 Compare $\frac{2}{5}$ and $\frac{3}{10}$ using tenths.

Answer

13 Compare $\frac{2}{3}$ and $\frac{3}{4}$ using twelfths.

Answer

14 Use $\frac{1}{2}$ to compare $\frac{4}{10}$ and $\frac{5}{8}$.

Answer

15 Order from least to greatest:
$\frac{2}{3}, \frac{1}{6}, \frac{1}{2}$

Answer

16 Order from greatest to least:
$\frac{3}{4}, \frac{5}{8}, \frac{7}{8}$

Answer

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Real life

Read carefully, then show your working

17 Two cakes are the same size. Sami eats $\frac{2}{6}$ of one cake and Lina eats $\frac{1}{3}$ of the other.
(a) Who eats more? (b) Show how you know.

Answer

18 A recipe needs $\frac{3}{4}$ litre of milk. Omar has $\frac{5}{8}$ litre.
(a) Write $\frac{3}{4}$ in eighths. (b) Does Omar have enough milk?

Answer

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Answer key

For parents · check the steps as well as the final answer

Pack 1	**1)** 6 **2)** 12 **3)** e.g. 6/8 and 9/12 (also 75/100) **4)** 8/12 **5)** Yes: 4/10 = (2 × 2)/(5 × 2) = 2/5 **6)** No: 6/12 = 1/2 = 4/8, but 3/8 is less than 1/2 **7)** 6/10 **8)** 5/12 (the others all equal 1/2)
Pack 2	**9)** 5/12 < 7/12 **10)** 4/5 > 4/8 (fifths are bigger than eighths) **11)** less (1/2 = 4/8) **12)** 2/5 = 4/10, so 2/5 > 3/10 **13)** 8/12 < 9/12, so 2/3 < 3/4 **14)** 4/10 < 1/2 < 5/8, so 4/10 < 5/8 **15)** 1/6, 1/2, 2/3 **16)** 7/8, 3/4, 5/8
Real life	**17)** (a) They eat the same amount. (b) 1/3 = (1 × 2)/(3 × 2) = 2/6 **18)** (a) 6/8 (b) No: 5/8 < 6/8

Tip: Only compare fractions of the same whole. Multiply the top and bottom by the same number: adding the same number does not work.

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Enjoyed this sample?

This sheet has 18 questions. The full topic has 92, plus 10 unit tests.

Everything a Grade 4 student needs on equivalent and comparing fractions: fraction strips, multiplying the numerator and denominator by the same number, missing numbers, common denominators, using 1/2 as a benchmark, and putting fractions in order.

What you get	What's inside	Questions
Pack 1 · Equivalent Fractions	Learn-it boxes, worked examples, practice, word problems, self-check and answer key · Common Core 4.NF.A.1	46
Pack 2 · Comparing Fractions	Learn-it boxes, worked examples, practice, word problems, self-check and answer key · Common Core 4.NF.A.2	46
Complete Topic book	All 2 packs in one book with a contents page	92
10 Unit Tests (A–J)	40 marks each, about 40 minutes, with a mark scheme and a "what to revise" table. **Test A is free.**	18 per test

How to use this sample

1. Let your child read the recap page and try the questions on their own.
2. Mark together with the answer key. Each section shows which pack it comes from.
3. If a section felt hard, that pack is the place to start. If it all felt easy, try the free Unit Test A.

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