Fractions A

Compare, Add and Subtract

Unlike denominators, mixed numbers and models



Compare and order fractions

Add and subtract unlike denominators

26 pages | 46 practice items | Complete worked keys

TOUCHSTONE STANDARDS

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Grade 5 Fractions A: Teacher Guide

Georgia's K-12 Mathematics Standards

5.NR.3.2

Compare and order up to three fractions with different numerators and/or different denominators by flexibly using a variety of tools and strategies.

5.NR.3.3

Model and solve problems involving addition and subtraction of fractions and mixed numbers with unlike denominators.

Page map: practice / key

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Use models and estimates before exact arithmetic. Equal-size wholes matter when comparing fractions. Accept equivalent fractions and appropriate mixed or improper forms; simplifying is not required.

Packet bounds: denominators 2, 3, 4, 5, 6, 8, 9, 10, 12; numerical common parts up to 60, drawn models up to 24 parts per whole. These are design choices. Page 11 has two subtractions that rename a whole and two that do not.

Page 13 spells MODELS. The extra table entry T belongs to the Spotlight. Key pages give sample reasoning; other valid strategies and tied benchmark estimates are welcome.

Follow Touchstone Standards on TPT for new resources. After using this packet, an honest review helps us improve.

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Benchmarks on Number Lines

Name: _____

Order A, B and C with < or =. Explain using the line or a benchmark.

Strategy Spotlight

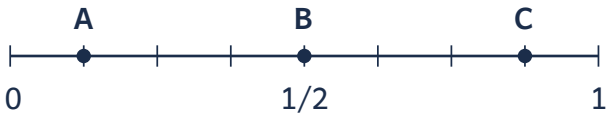
A: $\frac{5}{12}$ **B:** $\frac{2}{3}$ **C:** $\frac{3}{4}$

A = 5/12; B = 8/12; C = 9/12

So A < B < C. Compare fractions of the same-size whole.

1.

A: $\frac{1}{8}$ **B:** $\frac{1}{2}$ **C:** $\frac{7}{8}$

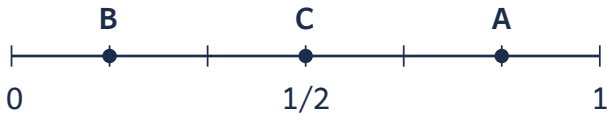


Order: _____

Why? _____

2.

A: $\frac{5}{6}$ **B:** $\frac{1}{6}$ **C:** $\frac{1}{2}$

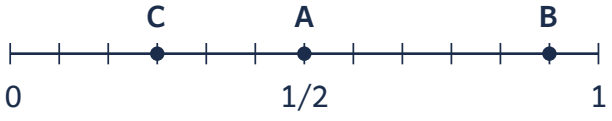


Order: _____

Why? _____

3.

A: $\frac{1}{2}$ **B:** $\frac{11}{12}$ **C:** $\frac{1}{4}$



Order: _____

Why? _____

4.

A: $\frac{4}{5}$ **B:** $\frac{1}{5}$ **C:** $\frac{3}{5}$



Order: _____

Why? _____

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Answer Key: Benchmarks on Number Lines

Student page 3

Order A, B and C with < or =. Explain using the line or a benchmark.

Strategy Spotlight

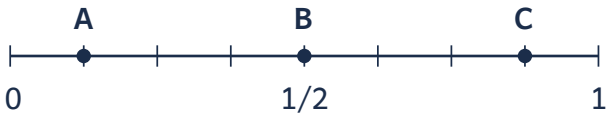
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A = 5/12; B = 8/12; C = 9/12

So A < B < C. Compare fractions of the same-size whole.

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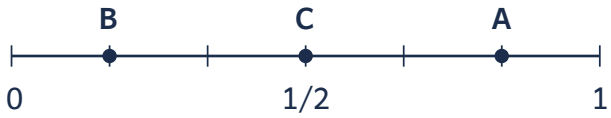


A < B < C

A = 1/8; B = 4/8; C = 7/8

2.

A: $\frac{5}{6}$ B: $\frac{1}{6}$ C: $\frac{1}{2}$

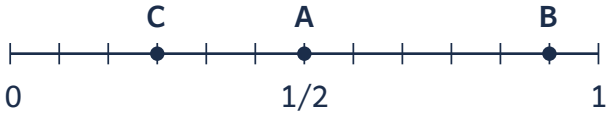


B < C < A

A = 5/6; B = 1/6; C = 3/6

3.

A: $\frac{1}{2}$ B: $\frac{11}{12}$ C: $\frac{1}{4}$



C < A < B

A = 6/12; B = 11/12; C = 3/12

4.

A: $\frac{4}{5}$ B: $\frac{1}{5}$ C: $\frac{3}{5}$



B < C < A

A = 4/5; B = 1/5; C = 3/5

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Subtract Mixed Numbers

Name: _____

Subtract using equal-size parts. Rename a whole when needed; show your steps.

Strategy Spotlight

$$4\frac{3}{8} - 1\frac{7}{12}$$

Estimate: 4 1/2 - 1 1/2 = 3

Rename: 3 33/24 - 1 14/24

Exact: $\mathbf{2\frac{19}{24}}$

31.

$$4\frac{1}{5} - 1\frac{5}{6}$$

Answer:

32.

$$3\frac{1}{6} - 1\frac{4}{9}$$

Answer:

33.

$$5\frac{7}{8} - 2\frac{1}{4}$$

Answer:

34.

$$4\frac{4}{5} - 1\frac{1}{6}$$

Answer:

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Answer Key: Subtract Mixed Numbers

Student page 11

Subtract using equal-size parts. Rename a whole when needed; show your steps.

Strategy Spotlight

$$4\frac{3}{8} - 1\frac{7}{12}$$

Estimate: 4 1/2 - 1 1/2 = 3

Rename: 3 33/24 - 1 14/24

Exact: $\mathbf{2\frac{19}{24}}$

31.

$$4\frac{1}{5} - 1\frac{5}{6} = \mathbf{2\frac{11}{30}}$$

Rename: 3 36/30 - 1 25/30

32.

$$3\frac{1}{6} - 1\frac{4}{9} = \mathbf{1\frac{13}{18}}$$

Rename: 2 21/18 - 1 8/18

33.

$$5\frac{7}{8} - 2\frac{1}{4} = \mathbf{3\frac{5}{8}}$$

Equal parts: 5 7/8 - 2 2/8

34.

$$4\frac{4}{5} - 1\frac{1}{6} = \mathbf{3\frac{19}{30}}$$

Equal parts: 4 24/30 - 1 5/30

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