

Pass Completion Fractions

Simplify completion rates, find equivalent fractions, compare QBs, and convert to percents. Real football math — made-up teams only. Show your work!

Name _____

Date _____

FRACTION TOOLKIT

Comp

 passes caught
÷ attempts

Simplify

 divide top &
bottom by GCF

=

 equivalent
fractions

%

 fraction × 100
→ percent

 $\frac{12}{16}$

=

 $\frac{3}{4}$

COMPLETIONS ÷ ATTEMPTS

ROOKIE

- 1 QB **Mira Finch** completed **12** of **16** passes. Write her completion rate as a **simplified** fraction.

WORK SPACE

ROOKIE

- 2 The **Coral Crabs** completed **18** of **24** passes. Simplify their completion fraction.

WORK SPACE

STARTER

- 3 Is **15/20** equivalent to **3/4**? Write **yes** or **no**, and show why.

WORK SPACE

STARTER

- 4 **Tess Brody** went **14/20**. **Kai Moss** went **9/15**. Who has the higher completion rate?

WORK SPACE

PRO

- 5 Write **21/28** as a simplified fraction, then as a **percent**.

WORK SPACE

_____ = _____ %

PRO

- 6 **Jules Park** wants a **3/5** completion rate over **20** attempts. How many completions does she need?

WORK SPACE

_____ comps

ALL-STAR

- 7 A drive had **8** plays; **6** were passes and **4** of those were completed. What fraction of **all plays** were completed passes? Simplify.

WORK SPACE

CHALLENGE ★

- 8 Last week the **Thunder Hawks** went **16/25**. This week: **+4** completions and **+5** attempts. New simplified rate? Nearest whole percent?

WORK SPACE

frac _____ · _____ %

A QB Completion Card

Fill the blank columns, then compare the five made-up QBs.

QB	COMP	ATT	SIMPLIFIED	%
Mira Finch	15	20		
Kai Moss	12	18		
Tess Brody	21	28		
Jules Park	16	24		
Yen Cho	9	12		

Completion % = (completions ÷ attempts) × 100. Round to the nearest whole percent when needed. Made-up QBs only.

- 1 Fill in the Simplified and % columns for every QB.
- 2 Which QBs share the highest completion percent?

- 3 Which QBs share the lowest completion percent?

- 4 List the two distinct rates from least to greatest.

B Rate Showdown

Simplify each raw rate, then order and compare.

QB	RAW	SIMPLIFIED
Riley Quill	8/12	
Ash Rivera	10/16	
Sam Ortega	9/12	
Nova Blake	14/20	

Simplify first, then compare. Use common denominators or convert to decimals.

- 1 Fill in each simplified fraction.
- 2 Order the four QBs from lowest to highest completion rate.

- 3 Who is higher: Sam Ortega or Nova Blake? By how much as a fraction?

- 4 What is the difference between Riley Quill and Ash Rivera (as a simplified fraction)?

C Drive Breakdown

Use the whole drive — passes and runs — to dig deeper.

- 1 The **Maple Moose** ran a 12-play drive: **9** passes and **3** runs. What fraction of the plays were passes? Simplify.

WORK SPACE

- 2 Of those **9** passes, **6** were completed. What is the completion fraction for the pass plays? Simplify.

WORK SPACE

- 3 What fraction of **all 12 plays** were completed passes? Write as a simplified fraction and as a percent.

WORK SPACE

frac _____ %

- 4 Next drive, coach wants a **3/4** completion rate on **8** attempts. How many completions are needed?

WORK SPACE

comps _____

Answer Key (for teachers & parents)

Answers for **Pass Completion Fractions**, with the work shown where it helps. Print pages 1 and 2 for students, and keep this page for checking.

Page 1 Problems

- 3/4** ($\div 4$)
- 3/4** ($\div 6$)
- Yes** ($15/20 = 3/4$)
- Tess Brody** ($7/10 > 3/5$)
- 3/4 = 75%**
- 12 comps** ($3/5 \times 20$)
- 1/2** (4 of 8 plays)
- 2/3 • 67%** ($20/30$)

A • QB Completion Card

- 3/4, 75%; 2/3, 67%; 3/4, 75%; 2/3, 67%; 3/4, 75%**
- Mira, Tess, Yen** (all 75%)
- Kai & Jules** (both 67%)
- 2/3, then 3/4**

B • Rate Showdown

- 2/3; 5/8; 3/4; 7/10**
- Ash, Riley, Nova, Sam**
- Sam by 1/20** ($3/4 - 7/10$)
- 1/24** ($2/3 - 5/8$)

C • Drive Breakdown

- 3/4** ($9/12$)
- 2/3** ($6/9$)
- 1/2 = 50%** ($6/12$)
- 6 comps** ($3/4 \times 8$)

Quick score

Page 1 problems	_____ / 8
A • QB Completion Card	_____ / 4
B • Rate Showdown	_____ / 4
C • Drive Breakdown	_____ / 4
Total	_____ / 20

Skills practiced

Simplifying fractions

Equivalent fractions

Comparing fractions

Fractions ↔ percents

Completion rate

Multi-step problems

Teaching tip: Have students rewrite every rate as a simplified fraction before comparing. Cross-multiply or find a common denominator when two fractions look close — like $2/3$ vs $5/8$.