DraftKids
Learn through sports

PRINTABLE · GRADES 3-5 · AGES 8-11

40-Yard Dash Decimals

Football coaches time players in the 40-yard dash, and a race can be won by just a few hundredths of a second. The made-up Pine Ridge Panthers held a speed day. Use their results for problems 1–8.

Name _____

Date _____

DECIMAL TOOLKIT

Tenths
0.1 = 1/10
1 of 10 equal parts

Hundredths
0.01 = 1/100
1 of 100 equal parts

Compare
line up the points, then read left to right

Round
look one place to the right: 5 or more, up

Line up
to add or subtract, line up the points

ONES		TENTHS	HUNDREDTHS
5	.	3	6

EXAMPLE: 5.36 SECONDS

Pine Ridge Panthers
SPEED DAY RESULTS
40-YARD DASH · SECONDS

Jordan Reyes	Malik Bennett	Theo Park	Sam Ortiz	Eli Carter	Dante Brooks
4.92 s	5.08 s	4.87 s	5.10 s	4.90 s	5.01 s



Each player sprints **40 yards** (120 feet). An electronic timer measures every dash to the nearest **hundredth** of a second.

ROOKIE

1 Theo ran the dash in **4.87** seconds. Which digit is in the **hundredths** place? What is that digit's value?

WORK SPACE

digit _____ ; value _____

ROOKIE

2 A lower time means a faster runner. Who ran the **fastest** dash on speed day? Write the player and the time.

WORK SPACE

_____ ; _____ s

STARTER

3 List all six players in order, from **fastest** to **slowest**.

1 _____ 2 _____ 3 _____

4 _____ 5 _____ 6 _____

STARTER

4 Round **Malik's** time and **Dante's** time to the nearest **tenth** of a second.

WORK SPACE

Malik _____ s; Dante _____ s

PRO

5 How many seconds **faster** was Theo than Sam?

WORK SPACE

_____ seconds

PRO

6 Write Jordan's time as a **mixed number** with a denominator of 100.

WORK SPACE

_____ seconds

ALL-STAR

7 Malik runs a second dash and finishes **0.15** seconds faster than his first time. What is his new time? Does it beat Jordan's time?

WORK SPACE

_____ s; yes or no _____

CHALLENGE ★

8 Challenge: The four fastest players run a relay, and their four times add up to the team time. The team record is **19.8** seconds. What is their team time? By how much do they beat the record?

WORK SPACE

time _____ s; by _____ s

A Tenths and Hundredths

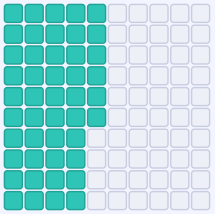
Write each fraction as a decimal, or each decimal as a fraction. Then solve problem 5 with the grid.

1. $\frac{7}{10}$ = _____

2. $\frac{63}{100}$ = _____

3. 0.5 = $\frac{\square}{100}$

4. $\frac{2}{10} + \frac{9}{100} = \frac{\square}{100}$ = _____

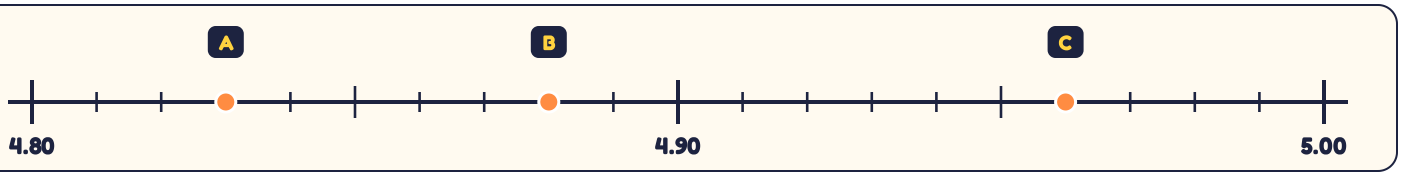


5. The big square is **1 whole**. What decimal is shaded?

_____

B Finish Line Number Line

Every small tick on this number line is one **hundredth** of a second.



1. What decimal is at point **A**?

_____

2. What decimal is at point **B**?

_____

3. What decimal is at point **C**?

_____

4. Draw an **X** on the line at **4.92**.

draw it on the line above

C Stopwatch Problems

Line up the decimal points before you add or subtract. Write a zero as a placeholder if it helps.

1. Hockey: In a skating drill, Leo's first lap took **14.05** seconds. His second lap took **13.48** seconds. How much faster was his second lap?

WORK SPACE

_____ **seconds**

2. Soccer: A made-up Harbor FC midfielder ran **2.4** kilometers in the first half and **3.15** kilometers in the second half. How far did she run in all?

WORK SPACE

_____ **km**

3. Basketball: A player shoots when the game clock shows **1.3** seconds. The ball is in the air for **0.85** seconds and goes in. How much time is left in the game when it goes in?

WORK SPACE

_____ **seconds**

4. Challenge: In a hockey fastest-skater race, Nia skates a lap in **38.09** s, Rosa in **38.9** s, and Kendra in **38.19** s. Who is fastest? How much faster is she than the slowest skater?

WORK SPACE

_____ ; _____ **s**

BONUS · NOT SCORED

Write **two** different times, in hundredths of a second, that are slower than 4.87 seconds but faster than 4.9 seconds.

_____

Answer Key (for teachers & parents)

Answers for **40-Yard Dash Decimals**, with the work shown. Print pages 1 and 2 for students and keep this page for checking. Equal forms also earn credit (for example, 5.0 or 5 for Dante's rounded time, and 4.92 or 4 92/100). Every team and player is made up.

Page 1 Problems

1. **Answer: digit 7; value 7 hundredths (0.07)**
   4.87 = 4 ones, 8 tenths, 7 hundredths
2. **Answer: Theo; 4.87 seconds**
   4.87 is the smallest time, so it is the fastest
3. **Answer: Theo 4.87, Eli 4.90, Jordan 4.92, Dante 5.01, Malik 5.08, Sam 5.10**
   Line up the decimal points and compare; 4.90 is the same as 4.9
4. **Answer: Malik 5.1 s; Dante 5.0 s**
   5.08: the hundredths digit is 8, so round up; 5.01: the 1 is less than 5, so round down
5. **Answer: 0.23 seconds**
   5.10 − 4.87 = 0.23
6. **Answer: 4 92/100 seconds**
   4.92 = 4 and 92 hundredths
7. **Answer: 4.93 s; no**
   5.08 − 0.15 = 4.93, which is still slower than Jordan's 4.92
8. **Answer: time 19.70 s; by 0.10 s**
   Theo, Eli, Jordan and Dante: 4.87 + 4.90 + 4.92 + 5.01 = 19.70; 19.80 − 19.70 = 0.10; 19.7 s and 0.1 s also earn credit

A · Tenths and Hundredths

1. **Answer: 0.7**
   7 tenths
2. **Answer: 0.63**
   63 hundredths
3. **Answer: 50/100**
   0.5 = 5 tenths = 50 hundredths
4. **Answer: 29/100 = 0.29**
   2/10 = 20/100; 20/100 + 9/100 = 29/100
5. **Answer: 0.46**
   4 full columns (40 squares) + 6 squares = 46 of 100 squares

Quick score

Page 1 problems	_____ / 8
A · Tenths and Hundredths	_____ / 5
B · Number Line	_____ / 4
C · Stopwatch Problems	_____ / 4
Total	_____ **/ 21**

Skills practiced

Decimal place value · Comparing decimals · Rounding to tenths · Fractions as decimals · Decimal number lines · Adding & subtracting decimals

Teaching tip: Many students think 4.9 is less than 4.87 because 9 is less than 87. Have them write 4.9 as 4.90 and read both as hundredths: 490 hundredths is more than 487 hundredths, so 4.9 is the slower time.

B · Finish Line Number Line

1. **Answer: point A is 4.83**
   3 ticks past 4.80
2. **Answer: point B is 4.88**
   8 ticks past 4.80, or 2 ticks before 4.90
3. **Answer: point C is 4.96**
   6 ticks past 4.90
4. **Answer: X at 4.92**
   the X goes 2 small ticks to the right of 4.90

C · Stopwatch Problems

1. **Answer: 0.57 seconds**
   14.05 − 13.48 = 0.57
2. **Answer: 5.55 km**
   2.40 + 3.15 = 5.55
3. **Answer: 0.45 seconds**
   1.30 − 0.85 = 0.45
4. **Answer: Nia; 0.81 s**
   38.09 is less than 38.19 and 38.90, so Nia is fastest and Rosa is slowest; 38.90 − 38.09 = 0.81

   Bonus (not scored): 4.88 and 4.89 seconds (times in thousandths, like 4.875, also earn credit).

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