

# Challenge

## Racing Against Time

Athletes from Nordland have been invited to take part in winter sports in Alpinia. There is a problem though. Race times in Nordland are recorded in decimals. In Alpinia race times are recorded in fractions. Your job is to compare the times to see who has won.

The table below shows the results for skiers A through H in the downhill skiing race.

Nordland			Alpinia		
Skiers	minutes	seconds	Skiers	minutes	seconds
A	1	51.7	A		
B			B	1	$51\frac{4}{5}$
C			C	1	$51\frac{1}{4}$
D	1	51.55	D		
E	1	51.2	E		
F	1	51.97	F		
G			G	1	$51\frac{7}{8}$
H			H	1	$51\frac{2}{5}$

1. Write each of the decimal times recorded by the Nordland judges as fractions on the Alpinia side of the table. Then write each of the fractional times recorded by the Alpinia judges as decimals on the Nordland side.

2. Which skier won the race? Write the letters of the skiers in order from fastest time to slowest time.

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3. Which system, fractions or decimals, do you think is better for recording the finishing times in a race? Explain.

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The table below shows the results for skiers A through H in the downhill skiing race.

Nordland			Alpinia		
Skiers	minutes	seconds	Skiers	minutes	seconds
A	1	51.7	A	1	$51\frac{7}{10}$
B	1	51.8	B	1	$51\frac{4}{5}$
C	1	51.25	C	1	$51\frac{1}{4}$
D	1	51.55	D	1	$51\frac{11}{20}$
E	1	51.2	E	1	$51\frac{1}{5}$
F	1	51.97	F	1	$51\frac{97}{100}$
G	1	51.875	G	1	$51\frac{7}{8}$
H	1	51.4	H	1	$51\frac{2}{5}$

- Write each of the decimal times recorded by the Nordland judges as fractions on the Alpinia side of the table. Then write each of the fractional times recorded by the Alpinia judges as decimals on the Nordland side.
- Which skier won the race? Write the letters of the skiers in order from fastest time to slowest time.

**contestant E; E, C, H, D, A, B, G, F**

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- Which system, fractions or decimals, do you think is better for recording the finishing times in a race? Explain.

**Possible answer: Decimals because they are easier to compare.**

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