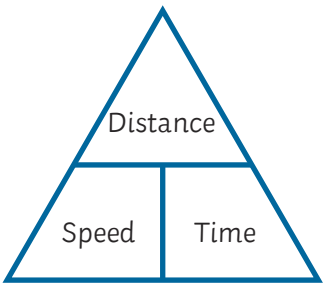
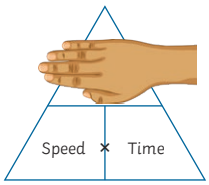
Speed, Distance and Time **Speed Skating**

To help you calculate speed, distance or time, you can look at the triangles below to help you.

Use them by covering up what you are trying to calculate with your hand and then following the instructions. For example, if you wanted to calculate distance, you would place your hand over distance in the triangle. It will tell you that you need to multiply the speed and time together to find the distance.

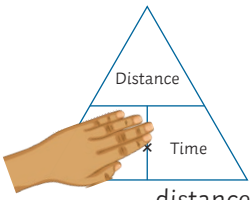
You might like to also remember the word itself: **distance**. The **d** is followed by **st**.





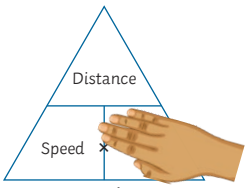
distance = speed × time

$d = st$



speed = $\frac{\text{distance}}{\text{time}}$

$s = \frac{d}{t}$



time = $\frac{\text{distance}}{\text{speed}}$

$t = \frac{d}{s}$

1. The table below shows information about the men's short course speed skating event. Complete the missing values by calculating either the distance, time or average speed.

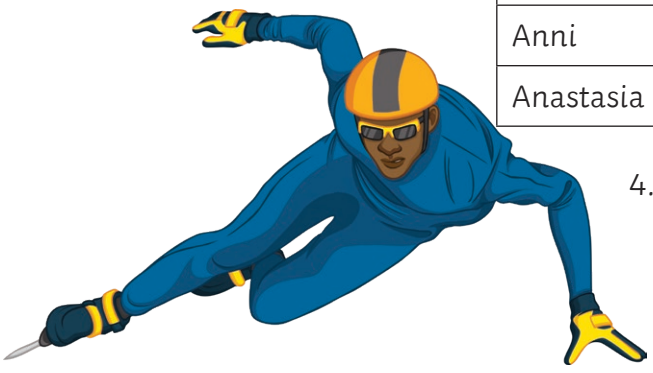
   The first row has been completed as an example.

Name	Country	Distance (m)	Time	Average Speed (m/s)
Eddie	UK	500	50 seconds	$\frac{500}{50}$ = 10
Mikel	France	1200		12
Jan	Sweden		45 seconds	8
Jorgen	Norway	660	1 minute	
Erik	Russia	1350		15

2. Which male competitor was the fastest skater? _____

3. The table below shows information about the women's long course speed skating event. Complete the missing values by calculating either the distance, time or average speed.

Name	Country	Distance (km)	Time (minutes)	Average Speed (km/minute)
Bethany	UK	6	12	
Natalie	France		5	1.1
Agnetha	Sweden	10.5	25	
Anni	Norway		4.5	1.3
Anastasia	Russia	1500m		0.75



4. Which female competitor covered the **second** greatest distance?

   _____

Speed, Distance and Time **Speed Skating Answers**

1. The table below shows information about the men's short course speed skating event. Complete the missing values by calculating either the distance, time or average speed.

   The first row has been completed as an example.

Name	Country	Distance (m)	Time	Average Speed (m/s)
Eddie	UK	500	50 seconds	$\frac{500}{50}$ = 10
Mikel	France	1200	$\frac{1200}{12}$ = **100 seconds**	12
Jan	Sweden	**45 × 8 = 360**	45 seconds	8
Jorgen	Norway	660	1 minute	$\frac{660}{60}$ = **11**
Erik	Russia	1350	$\frac{1350}{15}$ = **90 seconds**	15

2. Which male competitor was the fastest skater? **Erik**

3. The table below shows information about the women's long course speed skating event. Complete the missing values by calculating either the distance, time or average speed.

Name	Country	Distance (km)	Time (minutes)	Average Speed (km/minute)
Bethany	UK	6	12	$\frac{6}{12}$ = **0.5**
Natalie	France	**5 × 1.1 = 5.5**	5	1.1
Agnetha	Sweden	10.5	25	$\frac{10.5}{25}$ = **0.42**
Anni	Norway	**4.5 × 1.3 = 5.85**	4.5	1.3
Anastasia	Russia	1500m	**1500 ÷ 1000 = 1.5** $\frac{1.5}{0.75}$ = **2**	0.75

4. Which female competitor covered the **second** greatest distance? **Bethany**