



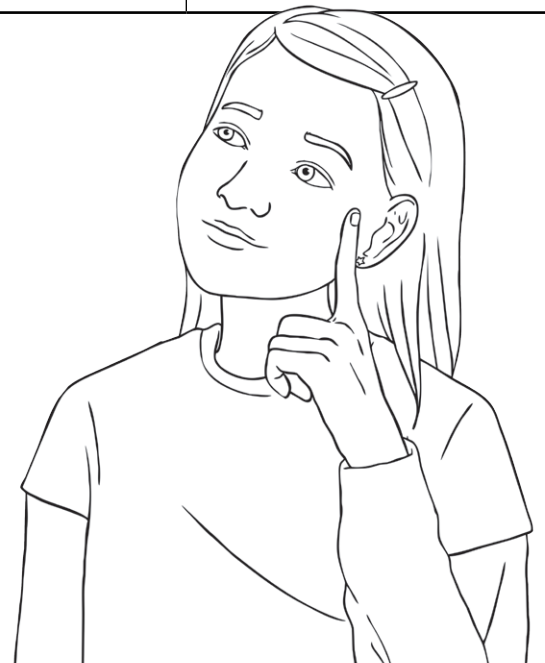
Extra Challenge

I can use estimation to check the answers to a calculation.



Complete the table:

Estimated answer	Calculation using estimation	Exact calculation	Exact answer
e.g. 120	40×3	39.3×2.87	112.791
45			
27			
100			
174			
59			
96			
365			
2100			





Finger Tennis

$13\,485.56 - 5583.38$	$(2.8 \times 9) \div 4$	$(9.6 \times 15) \div 8$	$507 \div 7.8$
$667.4 + 395.6 + 298.4$	$8295.59 - 5758.48$	$545.6 + 1935.5 + 583.8$	$2.5 \times 40 \times 10$
	$7589.3 + 396.5 + 396.8$	$784.9 - 385.6 - 125.8$	
$833 \div 8.5$	$1.5 \times 8 \times 100$	18.6×264	$(3.5 \times 7) \div 5$
	$1.5 \times 8 \times 100$	$1440 \div 12$	
15.9×193	$558 - (12\,000 \div 30)$	$6935.6 - 2754.9$	$847 - (8000 \div 40)$



Finger Tennis Scorecard

I can use estimation to check the answers to a calculation.



Take turns to flick your scrunched paper ball or marble on the Finger Tennis Game Board. Then copy the calculation that you land on to this sheet. Complete the number calculation and use estimation to check your answers. The answer to each question will be your score. The person with the highest score at the end of the lesson wins.

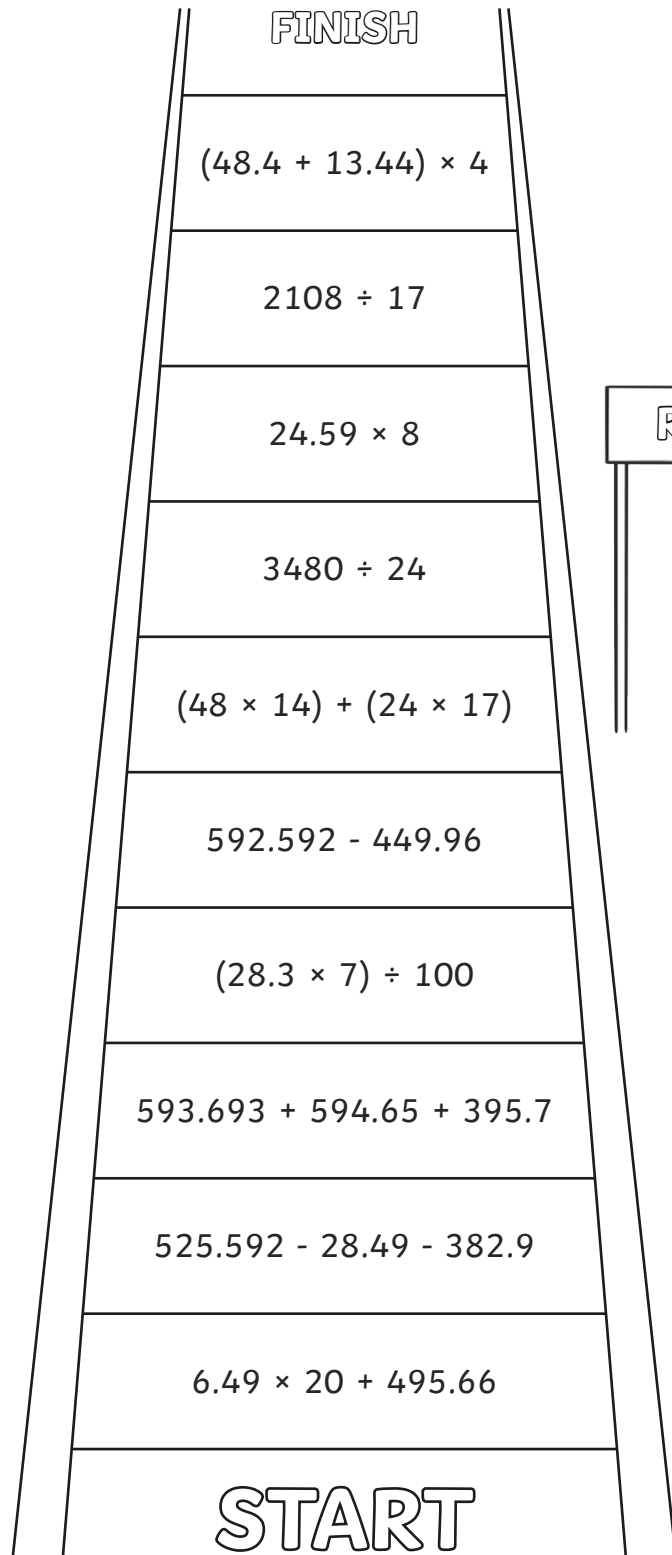
Question	Method	Answer Score	Checking using estimation



Running Track Hurdles

In pairs, compete against each other to complete a series of calculations and check your answers using estimation. The first person to the finish line with the most accurate answers wins.

Are you ready? On your mark, get set...





Running Track Hurdles

In pairs, compete against each other to complete a series of calculations and check your answers using estimation. The first person to the finish line with the most accurate answers wins.

Are you ready? On your mark, get set...



Runner Two

FINISH

$$(47.25 + 12.4) \times 4$$

$$3480 \div 24$$

$$32.75 \times 8$$

$$3726 \div 27$$

$$(56 \times 12) + (23 \times 15)$$

$$569.582 - 215.94$$

$$(48.5 \times 7) \div 100$$

$$485.959 + 385.43 + 295.6$$

$$592.594 - 245.35 - 24.5$$

$$5.8 \times 25 + 543.59$$

START



Runner One Record Sheet

Question	Working Out	Answer	Checking using estimation



Runner Two Record Sheet

Question	Working Out	Answer	Checking using estimation





Running Track Hurdles Answers

Question	Answer	Question	Answer
Hurdles Track One		Hurdles Track Two	
	$6.49 \times 20 + 495.66 = 625.46$		$5.8 \times 25 + 543.59 = 688.59$
	$525.592 - 28.49 - 382.9 = 114.202$		$592.594 - 245.35 - 24.5 = 322.744$
	$593.693 + 594.65 + 395.7 = 1584.043$		$485.959 + 385.43 + 295.6 = 1166.989$
	$(28.3 \times 7) \div 100 = 1.981$		$(48.5 \times 7) \div 100 = 3.395$
	$592.592 - 449.96 = 142.632$		$569.582 - 215.94 = 353.642$
	$(48 \times 14) + (24 \times 17) = 1080$		$(56 \times 12) + (23 \times 15) = 1017$
	$3480 \div 24 = 145$		$3726 \div 27 = 138$
	$24.59 \times 8 = 196.72$		$32.75 \times 8 = 262$
	$2108 \div 17 = 124$		$3480 \div 24 = 145$
	$(48.4 + 13.44) \times 4 = 247.36$		$(47.25 + 12.4) \times 4 = 238.6$



School Olympic

I can use estimation to check the answers to a calculation.



How far can you throw a beanbag?

Find the total distance of three beanbag throws.

	Measurement in centimetres	Check your answer using estimation.
Attempt 1		Show your workings.
Attempt 2		
Attempt 3		
Total distance		

Find the total distance of three beanbag throws.

	Measurement in centimetres	Check your answer using estimation.
Distance ran in 20 seconds		Show your workings.
	Measurement in centimetres	
Distance ran in 40 seconds		
Distance ran in a minute		
Distance ran in five minutes		
Distance ran in 20 minutes		





Find the total distance of three beanbag throws.

	Time taken in seconds	Check your answer using estimation.
Time taken in seconds 100 metres		Show your workings.
	Time taken in seconds	
500 metres		
800 metres		
1200 metres		

Use your predicted times to find the difference between the time taken to run 500 metres and 1200 metres.

Check your answer using estimation.

Show your workings.

