

# Homework/Extension

## Step 5: Add Lengths

### National Curriculum Objectives:

Mathematics Year 3: (3M9b) [Add and subtract lengths \(m/ cm/ mm\)](#)

### Differentiation:

Questions 1, 4 and 7 (Varied Fluency)

**Developing** Decide who covers the longest distance by adding lengths, using some mixed units. No exchanging. All units are in multiples of 5.

**Expected** Decide who covers the longest distance by adding lengths, using some mixed units with only one conversion and some exchanging.

**Greater Depth** Decide who covers the longest distance by adding lengths, using mixed units with exchanging. Questions require multiple conversions.

Questions 2, 5 and 8 (Varied Fluency)

**Developing** Decide if a statement is correct by adding lengths, using some mixed units. No exchanging. All units are in multiples of 5.

**Expected** Decide if a statement is correct by adding lengths, using some mixed units with only one conversion and some exchanging.

**Greater Depth** Decide if a statement is correct by adding lengths, using mixed units with exchanging. Questions require multiple conversions.

Questions 3, 6 and 9 (Reasoning and Problem Solving)

**Developing** Complete the comparison statement by adding lengths, using some mixed units. No exchanging. All units are in multiples of 5.

**Expected** Complete the comparison statement by adding lengths, using some mixed units with only one conversion and some exchanging.

**Greater Depth** Complete the comparison statement by adding lengths, using mixed units with exchanging. Questions require multiple conversions.

More [Year 3 Length and Perimeter](#) resources.

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# Add Lengths

1. Who covers the longest distance?

I rolled the marble 1m 30cm. I threw the frisbee 440cm.



Alfie

I rolled the marble 415cm. I threw the frisbee 2m 60cm.



Sebastian

I rolled the marble 2m 20cm. I threw the frisbee 365cm.



Alice



VF  
HW/Ext

2. Esme is describing the lengths below. Is she correct?



Esme

The total of A and D is greater than the total of B and C.

A.

20cm and 5mm

B.

540mm

C.

45cm

D.

655mm



VF  
HW/Ext

3. Complete the comparison statements with the following lengths.

$$\boxed{B} + \boxed{\phantom{0000}} =$$

=

$$\boxed{\phantom{0000}} + \boxed{\phantom{0000}} <$$

<

$$\boxed{\phantom{0000}} + \boxed{A}$$

A. 11m and 5cm

D. 40cm

B. 4m 25cm

E. 6m 50cm

C. 235cm

F. 460cm



RPS  
HW/Ext

# Add Lengths

4. Who covers the longest distance?

I threw the ball 3m 32cm. I threw the javelin 547cm.



Janine

I threw the ball 4m 38cm. I threw the javelin 351cm.



Mark

I threw the ball 1m 73cm. I threw the javelin 612cm.



Hayley



VF  
HW/Ext

5. Amanda is describing the lengths below. Is she correct?



Amanda

The total of A, B and E is less than C and D.

A.

6m 24cm

B.

241cm

C.

2m 73cm

D.

927cm

E.

9m 07cm



VF  
HW/Ext

6. Complete the comparison statements with the following lengths.

+

>

+

<

+

A.

114mm

D.

108cm

B.

78cm

E.

118cm 6mm

C.

642mm

F.

95cm



RPS  
HW/Ext

# Add Lengths

7. Who covers the longest distance?

I threw the stick  $4\frac{1}{4}$  m,  
I threw the bean bag  
986mm and I threw the  
ball  $72\frac{1}{2}$  cm.



Tommy

I threw the stick  $82\frac{1}{2}$   
cm, I threw the bean  
bag 70cm 56mm and I  
threw the ball  $3\frac{3}{4}$  m.



Jamila

I threw the stick 746mm,  
I threw the bean bag  
 $76\frac{1}{2}$  cm and I threw  
the ball  $5\frac{1}{4}$  m.



Ian



VF  
HW/Ext

8. Bertie is describing the lengths below. Is he correct?



Bertie

The total of C and E is 515mm  
more than the total of A, B  
and D.

A.

$4\frac{1}{4}$  m

B.

51cm 4mm

C.

$5\frac{1}{4}$  m

D.

436mm

E.

$46\frac{1}{2}$  cm



VF  
HW/Ext

9. Complete the comparison statements with the following lengths.

A +

<

+

>

+ D

A. 474mm

D. 42cm 32mm

B.  $7\frac{3}{4}$  m

E. 2m 20mm

C.  $64\frac{1}{2}$  cm

F. 6m 19cm



RPS  
HW/Ext

## Homework/Extension

### Add Lengths

#### Developing

1. Sebastian covers the largest distance which equals 6m 75cm (Alfie: 5m 70cm and Alice: 5m 85cm)
2. No, she is incorrect because  $A + D = 855\text{mm}$  and  $B + C = 990\text{mm}$
3. Various answers, for example:  $B + F = C + E < D + A$

#### Expected

4. Janine covers the largest distance which equals 8m 79cm (Mark: 7m 89cm and Hayley: 7m 85cm)
5. No, she is incorrect because  $A + B + E = 17\text{m } 72\text{cm}$ ;  $D + C = 12\text{m}$
6. Various answers, for example:  $D + E > A + C < B + F$

#### Greater Depth

7. Ian covers the largest distance which equals 6m 76cm 1mm (Tommy: 5m 96cm 1mm and Jamila: 5m 33cm 1mm)
8. He is correct.
9. Various answers, for example:  $A + F < B + E > C + D$