Jumping Aliens

At the alien Inter-Planetary Games, 15 aliens took part in the jumping championships.
Complete the results table using the clues on the right, using fraction bars to help you.

Alien	Distance Jumped
Blob	1m 50cm
Zik	
Flib	
Ix	
Nab	
Zap	
Floome	
Dox	
Rean	
Zop	
Silm	
Hane	
Tuffy	
Nebe	
Flep	

1. Zik jumped $\frac{2}{3}$ of the distance that Blob did.

2. Flib jumped $\frac{4}{5}$ of the distance that Blob did.

3. Ix jumped $\frac{3}{5}$ of the distance that Zik did.

4. Nab jumped $\frac{3}{4}$ of the distance that Flib did.

5. Zap jumped $\frac{1}{3}$ of the distance that Flib did.

6. Floome jumped $\frac{5}{6}$ of the distance that Flib did.

7. Dox jumped $\frac{9}{12}$ of the distance that Ix did.

8. Rean jumped $\frac{4}{9}$ of the distance that Nab did.

9. Zop jumped $\frac{3}{10}$ of the distance that Zap did.

10. Silm jumped $\frac{2}{9}$ of the distance that Dox did.

11. Hane jumped $\frac{5}{8}$ of the distance that that Rean did.

12. Tuffy jumped $\frac{2}{6}$ of the distance that Zop did.

13. Nebe jumped $\frac{7}{8}$ of the distance that Rean did.

14. Flep jumped $\frac{6}{7}$ of the distance that Nebe did.
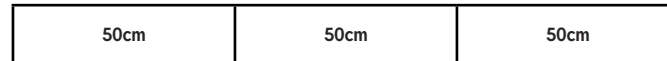
Jumping Aliens Answers

At the alien Inter-Planetary Games, 15 aliens took part in the jumping championships.
Complete the results table using the clues on the right, using fraction bars to help you.

Alien	Distance Jumped
Blob	1m 50cm
Zik	**1m**
Flib	**1m 20cm**
Ix	**60cm**
Nab	**90cm**
Zap	**40cm**
Floome	**1m**
Dox	**45cm**
Rean	**40cm**
Zop	**12cm**
Silm	**10cm**
Hane	**25cm**
Tuffy	**4cm**
Nebe	**35cm**
Flep	**30cm**

1. Zik jumped $\frac{2}{3}$ of the distance that Blob did.

   Blob jumped 1m 50cm = 150cm
   $\frac{2}{3}$ **of 150cm**
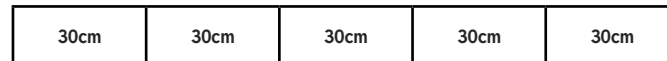
50cm	50cm	50cm

   50cm + 50cm = 2 × 50cm = 100cm = 1m
   Zik jumped 1m (or 100cm)

2. Flib jumped $\frac{4}{5}$ of the distance that Blob did.

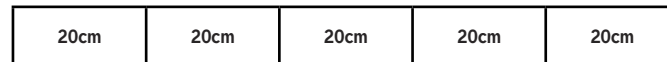   **Blob jumped 1m 50cm = 150cm**
   $\frac{4}{5}$ **of 150cm**

30cm	30cm	30cm	30cm	30cm

   30cm + 30cm + 30cm + 30cm = 4 × 30cm = 120cm = 1m 20cm
   Flib jumped 1m 20cm (or 120cm)

3. Ix jumped $\frac{3}{5}$ of the distance that Zik did.

   Zik jumped 1m = 100cm
   $\frac{3}{5}$ **of 100cm**

20cm	20cm	20cm	20cm	20cm

   20cm + 20cm + 20cm = 3 × 20cm = 60cm
   Ix jumped 60cm

4. Nab jumped $\frac{3}{4}$ of the distance that Flib did.

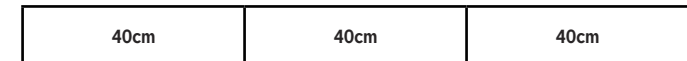   **Flib jumped 1m 20cm = 120cm**
   $\frac{3}{4}$ **of 120cm**

30cm	30cm	30cm	30cm

   30cm + 30cm + 30cm = 3 × 30cm = 90cm
   Nab jumped 90cm

5. Zap jumped $\frac{1}{3}$ of the distance that Flib did.

   Flib jumped 1m 20cm = 120cm
   $\frac{1}{3}$ **of 120cm**

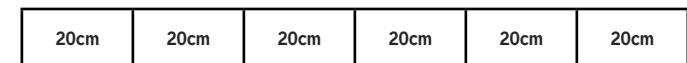 | 40cm | 40cm | 40cm |
   |---|---|---|

   Zap jumped 40cm

6. Floome jumped $\frac{5}{6}$ of the distance that Flib did.

   Flib jumped 1m 20cm = 120cm
   $\frac{5}{6}$ **of 120cm**

20cm	20cm	20cm	20cm	20cm	20cm

   20cm + 20cm + 20cm + 20cm + 20cm = 5 × 20cm = 100cm = 1m
   Floome jumped 1m (or 100cm)

Jumping Aliens Answers

7. Dox jumped $\frac{9}{12}$ of the distance that Ix did.

Ix jumped 60cm
$\frac{9}{12}$ of 60cm

5cm	5cm	5cm	5cm	5cm	5cm	5cm	5cm	5cm	5cm	5cm	5cm

5cm + 5cm + 5cm + 5cm + 5cm + 5cm + 5cm + 5cm + 5cm = 9 × 5cm = 45cm
Dox jumped 45cm

8. Rean jumped $\frac{4}{9}$ of the distance that Nab did.

Nab jumped 90cm
$\frac{4}{9}$ of 90cm

10cm	10cm	10cm	10cm	10cm	10cm	10cm	10cm	10cm

10cm + 10cm + 10cm + 10cm = 4 × 10cm = 40cm
Rean jumped 40cm

9. Zop jumped $\frac{3}{10}$ of the distance that Zap did.

Zap jumped 40cm
$\frac{3}{10}$ of 40cm

4cm	4cm	4cm	4cm	4cm	4cm	4cm	4cm	4cm	4cm

4cm + 4cm + 4cm = 3 × 4cm = 12cm
Zop jumped 12cm

10. Silm jumped $\frac{2}{9}$ of the distance that Dox did.

Dox jumped 45cm
$\frac{2}{9}$ of 45cm

5cm	5cm	5cm	5cm	5cm	5cm	5cm	5cm	5cm

5cm + 5cm = 2 × 5cm = 10cm
Silm jumped 10cm

11. Hane jumped $\frac{5}{8}$ of the distance that that Rean did.

Rean jumped 40cm
$\frac{5}{8}$ of 40cm

5cm	5cm	5cm	5cm	5cm	5cm	5cm	5cm

5cm + 5cm + 5cm + 5cm + 5cm = 5 × 5cm = 25cm
Hane jumped 25cm

12. Tuffy jumped $\frac{2}{6}$ of the distance that Zop did.

Zop jumped 12cm
$\frac{2}{6}$ of 12cm

2cm	2cm	2cm	2cm	2cm	2cm	2cm

2cm + 2cm = 2 × 2cm = 2cm
Tuffy jumped 4cm

13. Nebe jumped $\frac{7}{8}$ of the distance that Rean did.

Rean jumped 40cm
$\frac{7}{8}$ of 40cm

5cm	5cm	5cm	5cm	5cm	5cm	5cm	5cm

5cm + 5cm + 5cm + 5cm + 5cm + 5cm + 5cm = 7 × 5cm = 35cm
Nebe jumped 35cm

14. Flep jumped $\frac{6}{7}$ of the distance that Nebe did.

Nebe jumped 35cm
$\frac{6}{7}$ of 35cm

5cm	5cm	5cm	5cm	5cm	5cm	5cm

5cm + 5cm + 5cm + 5cm + 5cm + 5cm = 6 × 5cm = 30cm
Flep jumped 30cm

Jumping Aliens

At the alien Inter-Planetary Games, 15 aliens took part in the jumping championships.
Complete the results table using the clues below. Record the calculations you use.

Alien	Distance Jumped
Blob	1m 50cm

1. Zik jumped $\frac{2}{3}$ of the distance that Blob did.

2. Flib jumped $\frac{4}{5}$ of the distance that Blob did.

3. Ix jumped $\frac{3}{5}$ of the distance that Zik did.

4. Nab jumped $\frac{3}{4}$ of the distance that Flib did.

5. Zap jumped $\frac{1}{3}$ of the distance that Flib did.

6. Floome jumped $\frac{5}{6}$ of the distance that Flib did.

7. Dox jumped $\frac{9}{12}$ of the distance that Ix did.

8. Rean jumped $\frac{4}{9}$ of the distance that Nab did.

9. Zop jumped $\frac{3}{10}$ of the distance that Zap did.

10. Silm jumped $\frac{2}{9}$ of the distance that Dox did.

11. Hane jumped $\frac{5}{8}$ of the distance that that Rean did.

12. Tuffy jumped $\frac{2}{6}$ of the distance that Zop did.

13. Nebe jumped $\frac{7}{8}$ of the distance that Rean did.

14. Flep jumped $\frac{6}{7}$ of the distance that Nebe did.

Jumping Aliens Answers

At the alien Inter-Planetary Games, 15 aliens took part in the jumping championships.
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Alien	Distance Jumped
Blob	1m 50cm
Zik	**1m**
Flib	**1m 20cm**
Ix	**60cm**
Nab	**90cm**
Zap	**40cm**
Floome	**1m**
Dox	**45cm**
Rean	**40cm**
Zop	**12cm**
Silm	**10cm**
Hane	**25cm**
Tuffy	**4cm**
Nebe	**35cm**
Flep	**30cm**

1. Zik jumped $\frac{2}{3}$ of the distance that Blob did.

   Blob jumped 1m 50cm = 150cm
   $\frac{2}{3}$ of 150cm
   150 ÷ 3 = 50
   50 × 2 = 100cm = 1m
   Zik jumped 1m (or 100cm)

2. Flib jumped $\frac{4}{5}$ of the distance that Blob did.

   Blob jumped 1m 50cm = 150cm
   $\frac{4}{5}$ of 150cm
   150 ÷ 5 = 30
   30 × 4 = 120cm = 1m 20cm
   Flib jumped 1m 20cm (or 120cm)

3. Ix jumped $\frac{3}{5}$ of the distance that Zik did.

   Zik jumped 1m = 100cm
   $\frac{3}{5}$ of 100cm
   100 ÷ 5 = 20
   20 × 3 = 60cm
   Ix jumped 60cm

4. Nab jumped $\frac{3}{4}$ of the distance that Flib did.

   Flib jumped 1m 20cm = 120cm
   $\frac{3}{4}$ of 120cm
   120 ÷ 4 = 30
   30 × 3 = 90cm
   Nab jumped 90cm

5. Zap jumped $\frac{1}{3}$ of the distance that Flib did.

   Flib jumped 1m 20cm = 120cm
   $\frac{1}{3}$ of 120cm
   120 ÷ 3 = 40cm
   Zap jumped 40cm

6. Floome jumped $\frac{5}{6}$ of the distance that Flib did.

   $\frac{5}{6}$ Flib jumped 1m 20cm = 120cm
   $\frac{5}{6}$ of 120cm
   120 ÷ 6 = 20
   20 × 5 = 100cm = 1m
   Floome jumped 1m (or 100cm)

Jumping Aliens Answers

7. Dox jumped $\frac{9}{12}$ of the distance that Ix did.

Ix jumped 60cm
$\frac{9}{12}$ **of 60cm**
60 ÷ 12 = 5
5 × 9 = 45cm
Dox jumped 45cm

10. Silm jumped $\frac{2}{9}$ of the distance that Dox did.

Dox jumped 45cm
$\frac{2}{9}$ **of 45cm**
45 ÷ 9 = 5
5 × 2 = 10cm
Silm jumped 10cm

13. Nebe jumped $\frac{7}{8}$ of the distance that Rean did.

Rean jumped 40cm
$\frac{7}{8}$ **of 40cm**
40 ÷ 8 = 5
5 × 7 = 35cm
Nebe jumped 35cm

8. Rean jumped $\frac{4}{9}$ of the distance that Nab did.

Nab jumped 90cm
$\frac{4}{9}$ **of 90cm**
90 ÷ 9 = 10
10 × 4 = 40cm
Rean jumped 40cm

11. Hane jumped $\frac{5}{8}$ of the distance that that Rean did.

Rean jumped 40cm
$\frac{5}{8}$ **of 40cm**
40 ÷ 8 = 5
5 × 5 = 25cm
Hane jumped 25cm

14. Flep jumped $\frac{6}{7}$ of the distance that Nebe did.

Nebe jumped 35cm
$\frac{6}{7}$ **of 35cm**
35 ÷ 7 = 5
5 × 6 = 30cm
Flep jumped 30cm

9. Zop jumped $\frac{3}{10}$ of the distance that Zap did.

Zap jumped 40cm
$\frac{3}{10}$ **of 40cm**
40 ÷ 10 = 4
4 × 3 = 12cm
Zop jumped 12cm

12. Tuffy jumped $\frac{2}{6}$ of the distance that Zop did.

Zop jumped 12cm
$\frac{2}{6}$ **of 12cm**
12 ÷ 6 = 2
2 × 2 = 4cm
Tuffy jumped 4cm

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Blob	1m 50cm

Dox jumped $\frac{9}{12}$ of the distance that Ix did.

Flep jumped $\frac{6}{7}$ of the distance that Nebe did.

Silm jumped $\frac{2}{9}$ of the distance that Dox did.

Nab jumped $\frac{3}{4}$ of the distance that Flib did.

Zop jumped $\frac{3}{10}$ of the distance that Zap did.

Hane jumped $\frac{5}{8}$ of the distance that that Rean did.

Zap jumped $\frac{1}{3}$ of the distance that Flib did.

Tuffy jumped $\frac{2}{6}$ of the distance that Zop did.

Floome jumped $\frac{5}{6}$ of the distance that Flib did.

Flib jumped $\frac{4}{5}$ of the distance that Blob did.

Nebe jumped $\frac{7}{8}$ of the distance that Rean did.

Rean jumped $\frac{4}{9}$ of the distance that Nab did.

Zik jumped $\frac{2}{3}$ of the distance that Blob did.

Ix jumped $\frac{3}{5}$ of the distance that Zik did.

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Tuffy	**4cm**
Nebe	**35cm**
Flep	**30cm**

Zik jumped $\frac{2}{3}$ of the distance that Blob did.

Blob jumped 1m 50cm = 150cm
$\frac{2}{3}$ of 150cm
150 ÷ 3 = 50
50 × 2 = 100cm = 1m
Zik jumped 1m (or 100cm)

Flib jumped $\frac{4}{5}$ of the distance that Blob did.

Blob jumped 1m 50cm = 150cm
$\frac{4}{5}$ of 150cm
150 ÷ 5 = 30
30 × 4 = 120cm = 1m 20cm
Flib jumped 1m 20cm (or 120cm)

Ix jumped $\frac{3}{5}$ of the distance that Zik did.

Zik jumped 1m = 100cm
$\frac{3}{5}$ of 100cm
$\frac{3}{5}$ 00 ÷ 5 = 20
20 × 3 = 60cm
Ix jumped 60cm

Nab jumped $\frac{3}{4}$ of the distance that Flib did.

Flib jumped 1m 20cm = 120cm
$\frac{3}{4}$ of 120cm
120 ÷ 4 = 30
30 × 3 = 90cm
Nab jumped 90cm

Zap jumped $\frac{1}{3}$ of the distance that Flib did.

Flib jumped 1m 20cm = 120cm
$\frac{1}{3}$ of 120cm
120 ÷ 3 = 40cm
Zap jumped 40cm

Floome jumped $\frac{5}{6}$ of the distance that Flib did.

$\frac{5}{6}$ ib jumped 1m 20cm = 120cm
$\frac{5}{6}$ 5 of 120cm
120 ÷ 6 = 20
20 × 5 = 100cm = 1m
Floome jumped 1m (or 100cm)

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Dox jumped $\frac{9}{12}$ of the distance that Ix did.

Ix jumped 60cm
$\frac{9}{12}$ **of 60cm**
60 ÷ 12 = 5
5 × 9 = 45cm
Dox jumped 45cm

Silm jumped $\frac{2}{9}$ of the distance that Dox did.

Dox jumped 45cm
$\frac{2}{9}$ **of 45cm**
45 ÷ 9 = 5
5 × 2 = 10cm
Silm jumped 10cm

Nebe jumped $\frac{7}{8}$ of the distance that Rean did.

Rean jumped 40cm
$\frac{7}{8}$ **of 40cm**
40 ÷ 8 = 5
5 × 7 = 35cm
Nebe jumped 35cm

Rean jumped $\frac{4}{9}$ of the distance that Nab did.

Nab jumped 90cm
$\frac{4}{9}$ **of 90cm**
90 ÷ 9 = 10
10 × 4 = 40cm
Rean jumped 40cm

Hane jumped $\frac{5}{8}$ of the distance that that Rean did.

Rean jumped 40cm
$\frac{5}{8}$ **of 40cm**
40 ÷ 8 = 5
5 × 5 = 25cm
Hane jumped 25cm

Flep jumped $\frac{6}{7}$ of the distance that Nebe did.

Nebe jumped 35cm
$\frac{6}{7}$ **of 35cm**
35 ÷ 7 = 5
5 × 6 = 30cm
Flep jumped 30cm

Zop jumped $\frac{3}{10}$ of the distance that Zap did.

Zap jumped 40cm
$\frac{3}{10}$ **of 40cm**
40 ÷ 10 = 4
4 × 3 = 12cm
Zop jumped 12cm

Tuffy jumped $\frac{2}{6}$ of the distance that Zop did.

Zop jumped 12cm
$\frac{2}{6}$ **of 12cm**
12 ÷ 6 = 2
2 × 2 = 4cm
Tuffy jumped 4cm