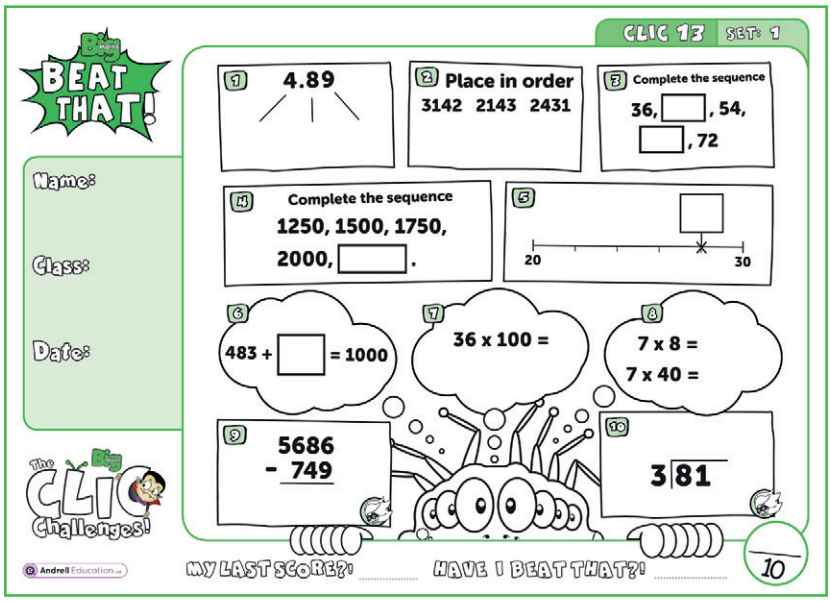
Big Maths

A Guide for Home Learning

CLIC 13

Introduction - CLIC 13

In school, each week, children complete a CLIC challenge. The answers that they provide tell their teacher what skils they understand and allow teachers to focus on teaching the skills that they don't (as well as new skills that will be taught). If your child completes their challenges online at school, you may have been sent a link to log on at home. This pupil log on only allows children to complete one challenge a week. We are currently building a new pupil area, which will help with home learning.



This guide provides you with a copy of a CLIC challenge, a description of the skill each question is challenging and some sample resources for each question to help with home learning. (A description of each of these resources is on the next page.) The key is to keep it fun, no pressure and limit the time to less than 20 minutes a day, unless your child wants to carry on!

Please seek and follow advice from your child's teacher and school!

What skill does each question challenge?

Question 1
I can partition a 2dp number

Question 2
I can understand 4d numbers

Question 3
I can count in 9s

Question 4
10s / 20s / 50s / 250s

Question 5
I can still count along for all of Count Fourways' challenges

Question 6
I can find the missing piece to 1000

Question 7
I can multiply whole numbers by 100

Question 8
I can solve any 1d x 1d

Question 9
I can solve any 4d - 2d or 3d

Question 10
I can solve 2d ÷ 1d (using x2, 3, 4, 5) with no remainders in the answer

Remember To's

Every step of learning (skill) in Big Maths has 'Remember to...'s. These are simple reminders for children to 'Remember to' do this, this, etc...

In Big Maths, we have divided complicated skills into small steps, provided 'Remember to...'s and examples to keep it simple for children.

A Progress Drive is a collection of skill steps that progress a child's learning to the point of mastering the larger objective.

Repeat Sheets

Repeat sheets contain a number of questions (usually 10) that you can use for repeat practice of a particular step. Please feel free to create your own repeat questions to avoid children simply memorising the questions and answers.

Revisit Sheets

Revisit sheets contain a number of questions (usually 10) that you can use which include a unit of measure applied to the numbers (It's Nothing New!) of a particular step. Please feel free to create your own revisit questions to avoid children simply memorising the questions and answers.

Real Life Maths Sheets

Real Life Maths sheets contain a number of questions (usually 5) where the questions have been placed into worded scenarios for a particular step, increasing the complexity and challenge further. Please feel free to create your own real life maths questions to avoid children simply memorising the questions and answers.

Select Sheets

Select sheets contain a number of worded questions (usually 5) which no longer automatically relate to the step we are on. These increase the complexity and challenge further still. Please feel free to create your own select questions to avoid children
simply memorising the questions and answers.

CLIC 13

The following CLIC challenge is an example for you to use to practice at home. We have included the answer sheet as well. Please feel free to create your own additional questions by changing the numbers for any that your child gets wrong. In this pack, there is additional advice for each question, with resources that can help with home learning. It is important that you use the correct challenge level as provided by your teacher.

Big Maths BEAT THAT!

Name:

Class:

Date:

1 4.89

2 Place in order

3142 2143 2431

3 Complete the sequence

36, ☐, 54,

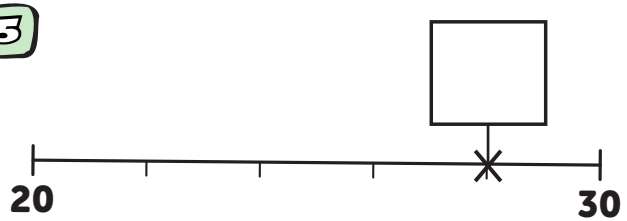
☐, 72

4 Complete the sequence

1250, 1500, 1750,

2000, ☐.

5



6 483 + ☐ = 1000

7 36 x 100 =

8 7 x 8 =

7 x 40 =

9

5686
- 749

10 3 | 81

MY LAST SCORE?! .....

HAVE I BEAT THAT?! .....

10

The Big Maths CLIC Challenges!

Andrell Education Ltd

Big Maths BEAT THAT!

Name:

Class:

Date:

1 4.89

4 0.8 0.09

2 Place in order

3142 2143 2431

2143 2431 3142

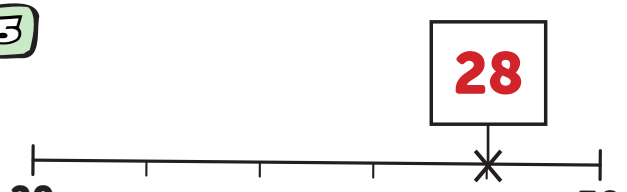
3 Complete the sequence

36, 45, 54, 63, 72

4 Complete the sequence

1250, 1500, 1750, 2000, 2250.

5



6 483 + 517 = 1000

7 36 x 100 = 3600

8 7 x 8 = 56

7 x 40 = 280

9

$$\begin{array}{r} 5686 \\ -\ 749 \\ \hline 4937 \end{array}$$

10

$$3\overline{)81} = 27$$

The Big Maths CLIC Challenges!

MY LAST SCORE?! ..... HAVE I BEAT THAT?! .....

10

Question Practice Resources

Question 1 - I can partition a number with 2 decimal places

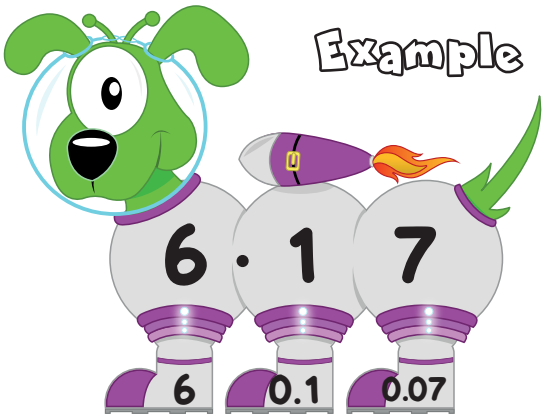
Remember to:

- write the number
- draw the sticks
- copy the units digit
- copy the tenths digit... with a 'zero-point' in front of it
- copy the hundredths digit... with a 'zero-point-zero' in front of it

Repeat Questions

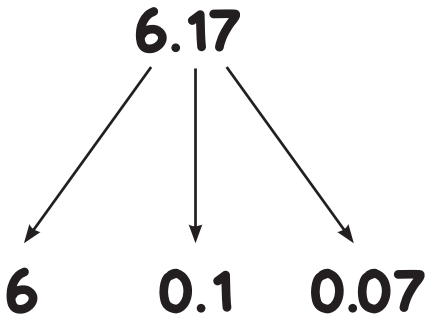
Step 4 — Place Value

I can partition a 2dp number



Remember to:

- write the number
- draw the sticks
- copy the units digit
- copy the tenths digit... with 'zero-point' in front of it
- copy the hundredths digit... with 'zero-point-zero' in front of it

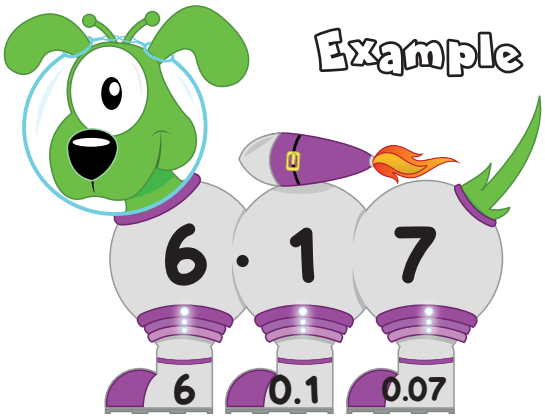


1. **Partition 5.63**
2. **Partition 1.73**
3. **Partition 6.26**
4. **Partition 9.65**
5. **Partition 4.63**
6. **Partition 2.27**
7. **Partition 7.32**
8. **Partition 5.92**
9. **Partition 8.58**
10. **Partition 3.42**

Big Maths Repeat Answers

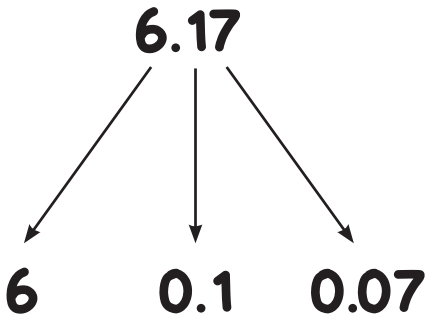
Step 4 — **Place Value**

I can partition a 2dp number



Remember to:

- write the number
- draw the sticks
- copy the units digit
- copy the tenths digit... with 'zero-point' in front of it
- copy the hundredths digit... with 'zero-point-zero' in front of it



1. 5, 0.6, 0.03
2. 1, 0.7, 0.03
3. 6, 0.2, 0.06
4. 9, 0.6, 0.05
5. 4, 0.6, 0.03
6. 2, 0.2, 0.07
7. 7, 0.3, 0.02
8. 5, 0.9, 0.02
9. 8, 0.5, 0.08
10. 3, 0.4, 0.02

Question Practice Resources

Question 2 - I understand 4 digit numbers

Remember to:

- order the numbers by their thousands digit
- then, if they have the same thousands digit, order by the hundreds digit
- then, if they have the same hundreds digit, order by the tens digit
- then, if they have the same tens digit, order by the units digit

Big Maths Repeat Questions

Step 5 Mastery of Numbers

I can understand 4d numbers

Remember To:

- order the numbers by their thousands digit
- then, if they have the same thousands digit, order by the hundreds digit
- then, if they have the same hundreds digit, order by the tens digit
- then, if they have the same tens digit, order by the units digit

1. **1452, 1678, 9000, 6789**

2. **6745, 6743, 6744, 6741**

3. **9875, 9874, 9873, 9872**

4. **5400, 5500, 5300, 5200**

5. **2650, 2620, 2630, 2615**

6. **1235, 2450, 1150, 3750**

7. **6513, 6515, 6511, 6509**

8. **3000, 2999, 3999, 5100**

9. **7000, 6000, 4500, 3200**

10. **9999, 9998, 9978, 9943**

Big Maths Repeat Answers

Step 5

Mastery of Numbers

I can understand 4d numbers

Remember To:

- order the numbers by their thousands digit
- then, if they have the same thousands digit, order by the hundreds digit
- then, if they have the same hundreds digit, order by the tens digit
- then, if they have the same tens digit, order by the units digit

1. **1452, 1678, 6789, 9000**

2. **6741, 6743, 6744, 6745**

3. **9872, 9873, 9874, 9875**

4. **5200, 5300, 5400, 5500**

5. **2615, 2620, 2630, 2650**

6. **1150, 1235, 2450, 3750**

7. **6509, 6511, 6513, 6515**

8. **2999, 3000, 3999, 5000**

9. **3200, 4500, 6000, 7000**

10. **9943, 9978, 9998, 9999**

Big Maths Revisit Questions

Step 5 Mastery of Numbers

I can understand 4d numbers

Remember To:

- order the numbers by their thousands digit
- then, if they have the same thousands digit, order by the hundreds digit
- then, if they have the same hundreds digit, order by the tens digit
- then, if they have the same tens digit, order by the units digit

1. **5400m, 5500m, 5300m, 5200m**

2. **6745cm, 6743cm, 6744cm, 6741cm**

3. **1235km, 2450km, 1150km, 3750km**

4. **1452g, 1678g, 9000g, 6789g**

5. **3000mg, 2999mg, 3999mg, 5100mg**

6. **9875L, 9874L, 9873L, 9872L**

7. **9999ml, 9998ml, 9978ml, 9943ml**

8. **2650s, 2620s, 2630s, 2615s**

9. **7000mm, 6000mm, 4500mm, 3200mm**

10. **6513kg, 6515kg, 6511kg, 6509kg**

Big Maths Revisit Answers

Step 5 — Mastery of Numbers

I can understand 4d numbers

Remember To:

- order the numbers by their thousands digit
- then, if they have the same thousands digit, order by the hundreds digit
- then, if they have the same hundreds digit, order by the tens digit
- then, if they have the same tens digit, order by the units digit

1. **5200m, 5300m, 5400m, 5500m**

2. **6741cm, 6743cm, 6744cm, 6745cm**

3. **9872km, 9873km, 9874km, 9875km**

4. **1452g, 1678g, 6789g, 9000g**

5. **2999mg, 3000mg, 3999mg, 5000mg**

6. **1150L, 1235L, 2450L, 3750L**

7. **9943ml, 9978ml, 9998ml, 9999ml**

8. **2615s, 2620s, 2630s, 2650s**

9. **3200mm, 4500mm, 6000mm, 7000mm**

10. **6509kg, 6511kg, 6513kg, 6515kg**

Question Practice Resources

Question 3 - I can count in 9s

Big Maths Repeat Questions

Step 9

Counting Multiples

I can count in 9s

Example

1. 9, 18,
2. 126, 135,
3. 27, 36,
4. 45, 54,
5. 90, 99,
6. 153, 162,
7. 63, 72,
8. 360, 369,
9. 180, 189,
10. 261, 270,

Repeat Answers

Step 9

Counting Multiples

I can count in 9s

Example

1. 9, 18, 27, 36, 45
2. 126, 135, 144, 153, 162
3. 27, 36, 45, 54, 63
4. 45, 54, 63, 72, 81
5. 90, 99, 108, 117, 126
6. 153, 162, 171, 180, 189
7. 63, 72, 81, 90, 99
8. 360, 369, 378, 387, 396
9. 180, 189, 198, 207, 216
10. 261, 270, 279, 288, 297

Big Maths Revisit Questions

Step 9 — Counting Multiples

I can count in 9s

Example

1. 45g, 54g,
2. 126cm, 135cm,
3. 153L, 162L,
4. 9m, 18m,
5. 360s, 369s,
6. 27km, 36km,
7. 63ml, 72ml,
8. 90mg, 99mg,
9. 180mm, 189mm,
10. 261kg, 270kg,

Big Maths Revisit Questions

Step 9 — **Counting Multiples**

I can count in 9s

Example

1. 45g, 54g, **63g, 72g, 81g**
2. 126cm, 135cm, **144cm, 153cm, 162cm**
3. 153l, 162l, **171l, 180l, 189l**
4. 9m, 18m, **27m, 36m, 45m**
5. 360s, 369s, **378s, 387s, 396s**
6. 27km, 36km, **45km, 54km, 63km**
7. 63ml, 72ml, **81ml, 90ml, 99ml**
8. 90mg, 99mg, **108mg, 117mg, 126mg**
9. 180mm, 189mm, **198mm, 207mm, 216mm**
10. 261kg, 270kg, **279kg, 288kg, 297kg**

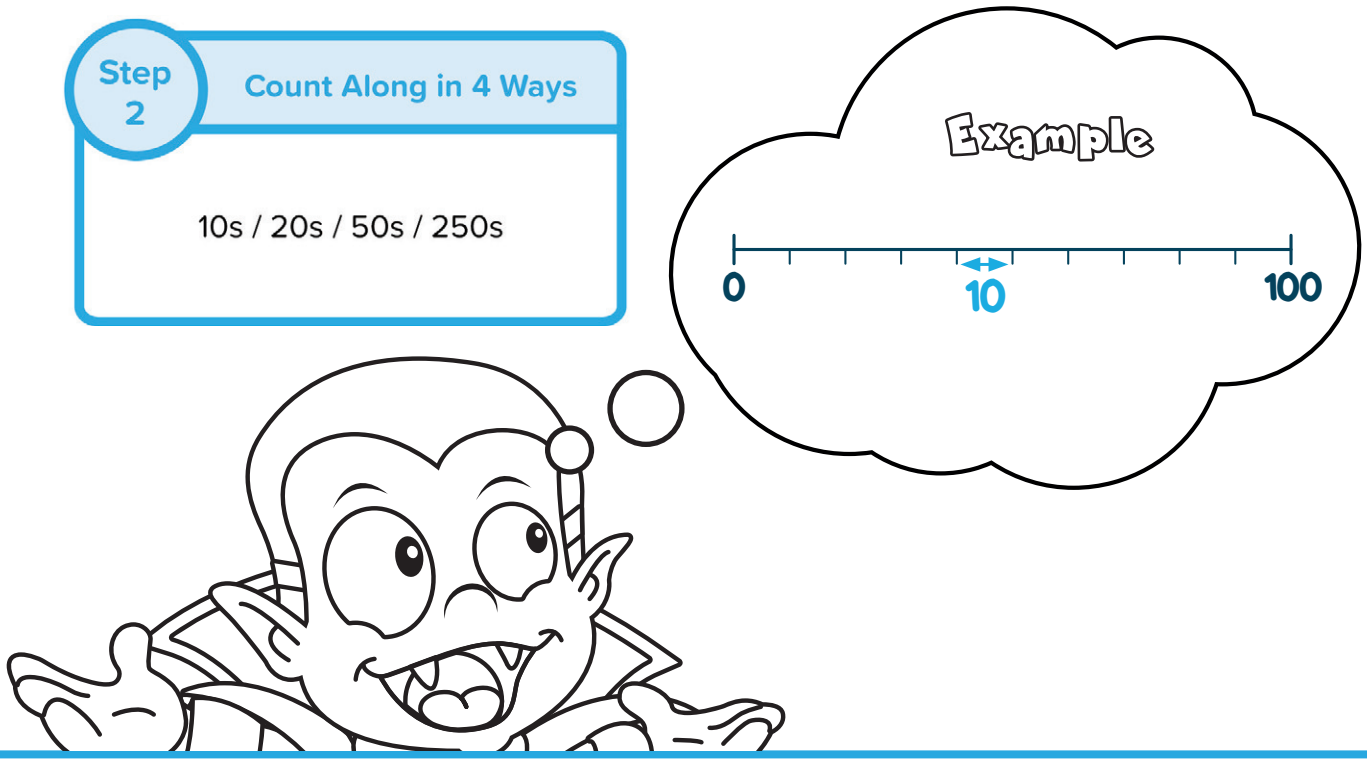
Question Practice Resources

Question 4 - I can in 10s, 20s, 50s and 250s

Big Maths **Repeat** Questions

Step 2 Count Along in 4 Ways

10s / 20s / 50s / 250s

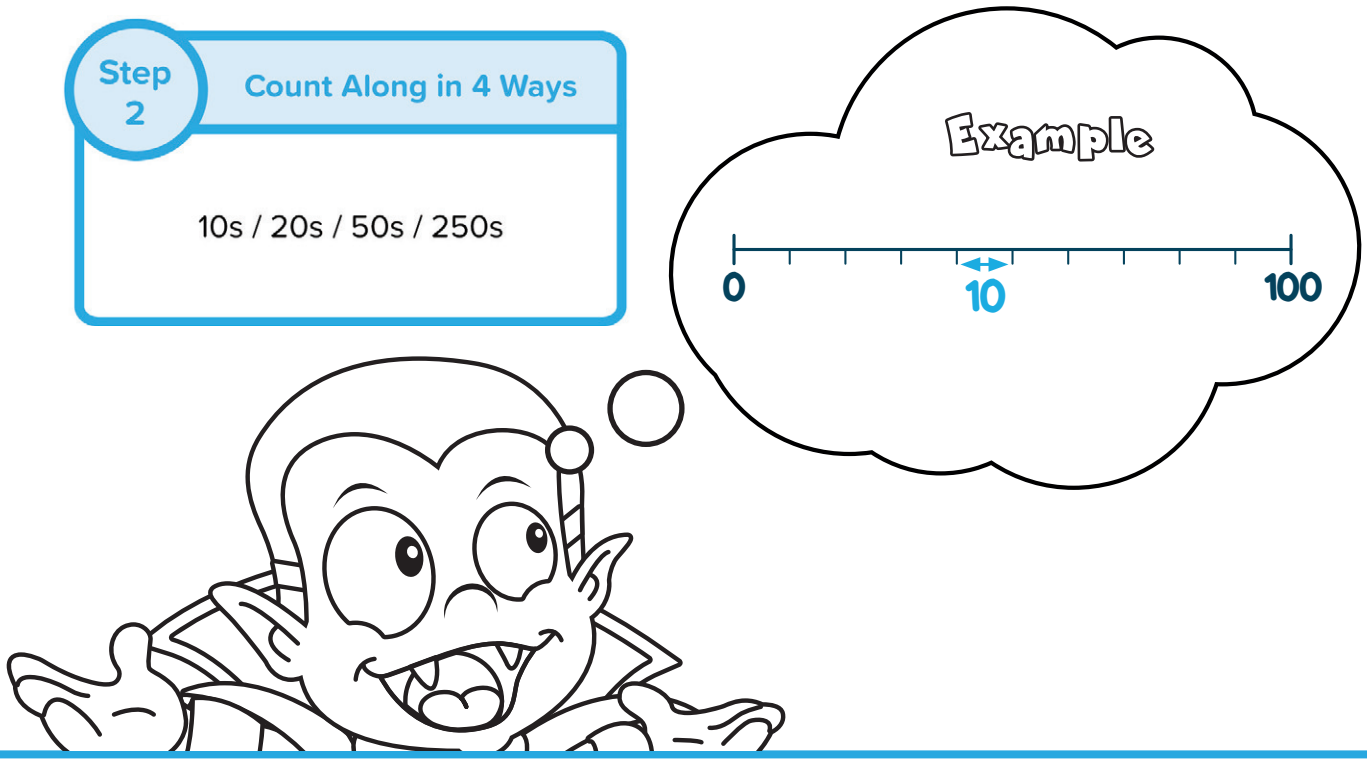


1. 10, 20,
2. 80, 90,
3. 160, 170,
4. 240, 250,
5. 310, 320,
6. 440, 450,
7. 750, 760,
8. 820, 830,
9. 940, 950,
10. 660, 670,

Big Maths **Repeat** Answers

Step 2 Count Along in 4 Ways

10s / 20s / 50s / 250s

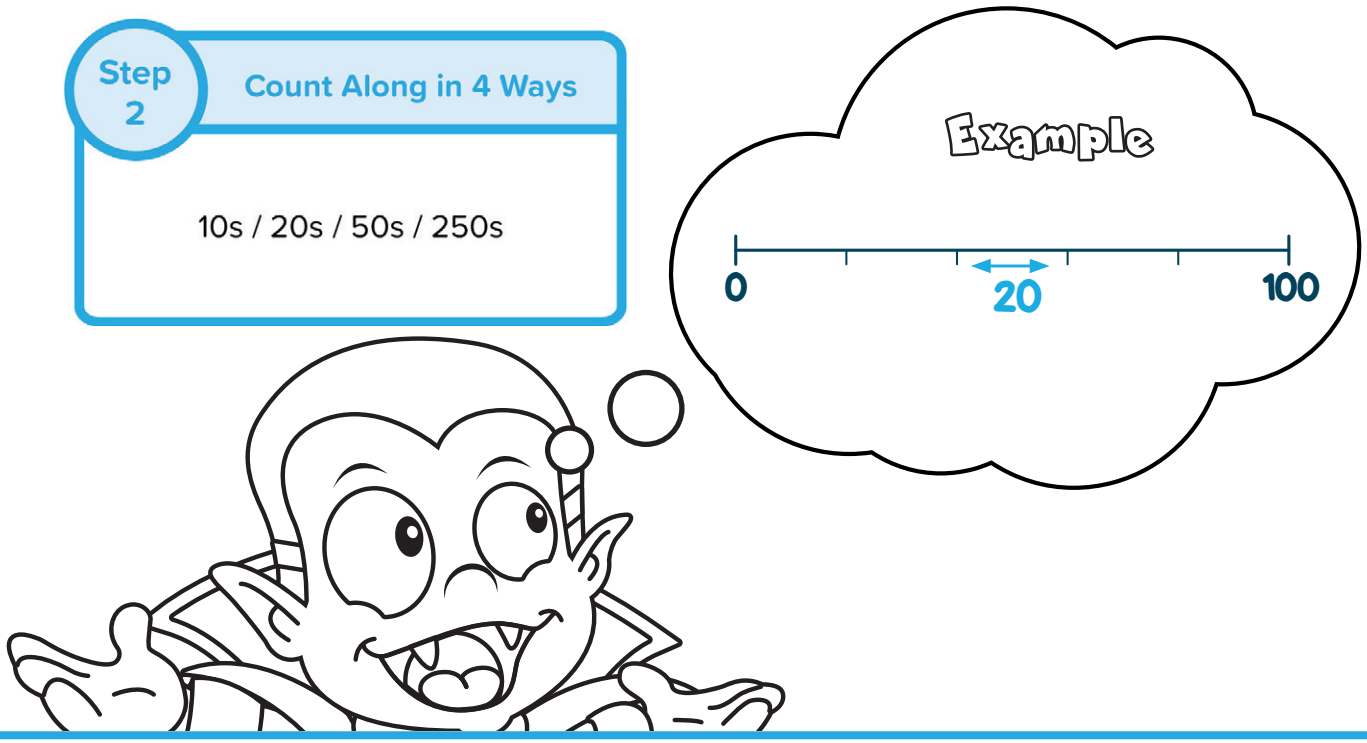


1. 10, 20, 30, 40, 50
2. 80, 90, 100, 110, 120
3. 160, 170, 180, 190, 200
4. 240, 250, 260, 270, 280
5. 310, 320, 330, 340, 350
6. 440, 450, 460, 470, 480
7. 750, 760, 770, 780, 790
8. 820, 830, 840, 850, 860
9. 940, 950, 960, 970, 980
10. 660, 670, 680, 690, 700

Big Maths **Repeat** Questions

Step 2 Count Along in 4 Ways

10s / 20s / 50s / 250s

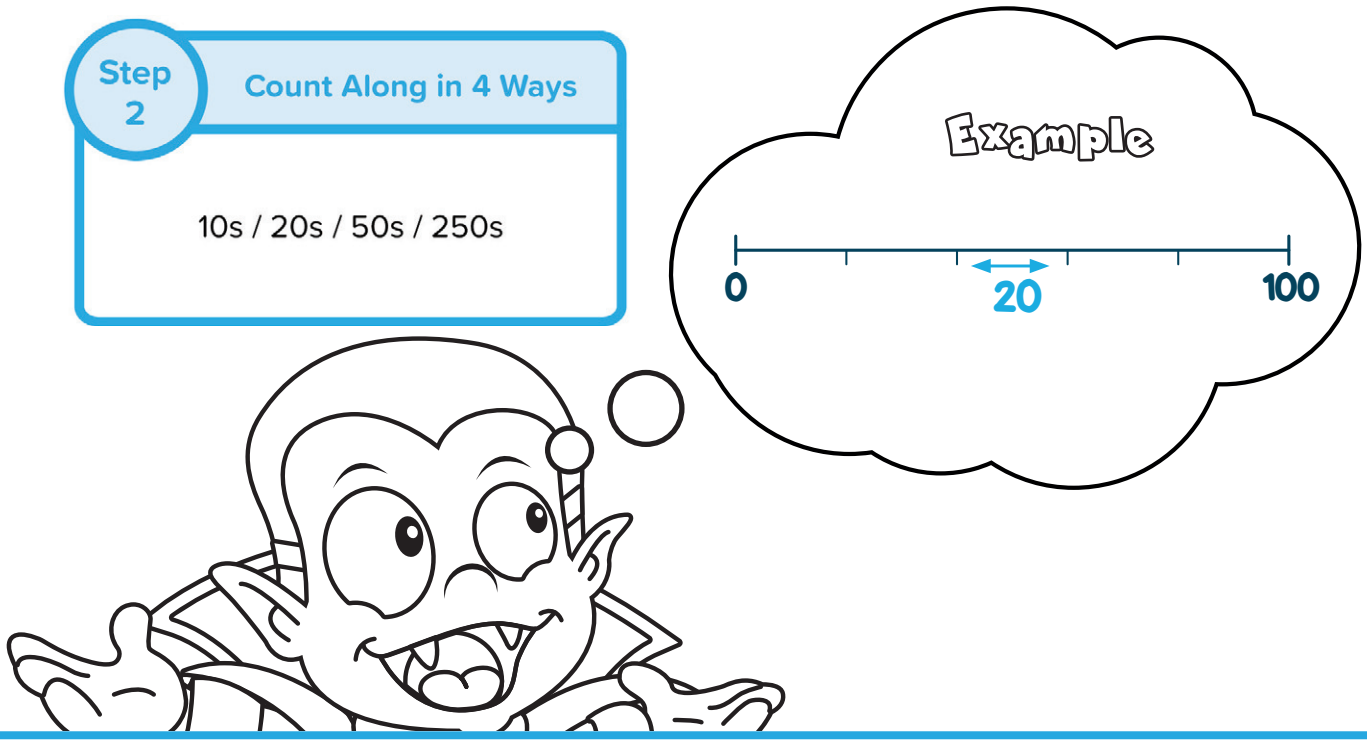


1. **60, 80,**
2. **160, 180,**
3. **200, 220,**
4. **360, 380,**
5. **520, 540,**
6. **280, 300,**
7. **760, 780,**
8. **440, 460,**
9. **820, 840,**
10. **660, 680,**

Repeat Answers

Step 2 Count Along in 4 Ways

10s / 20s / 50s / 250s

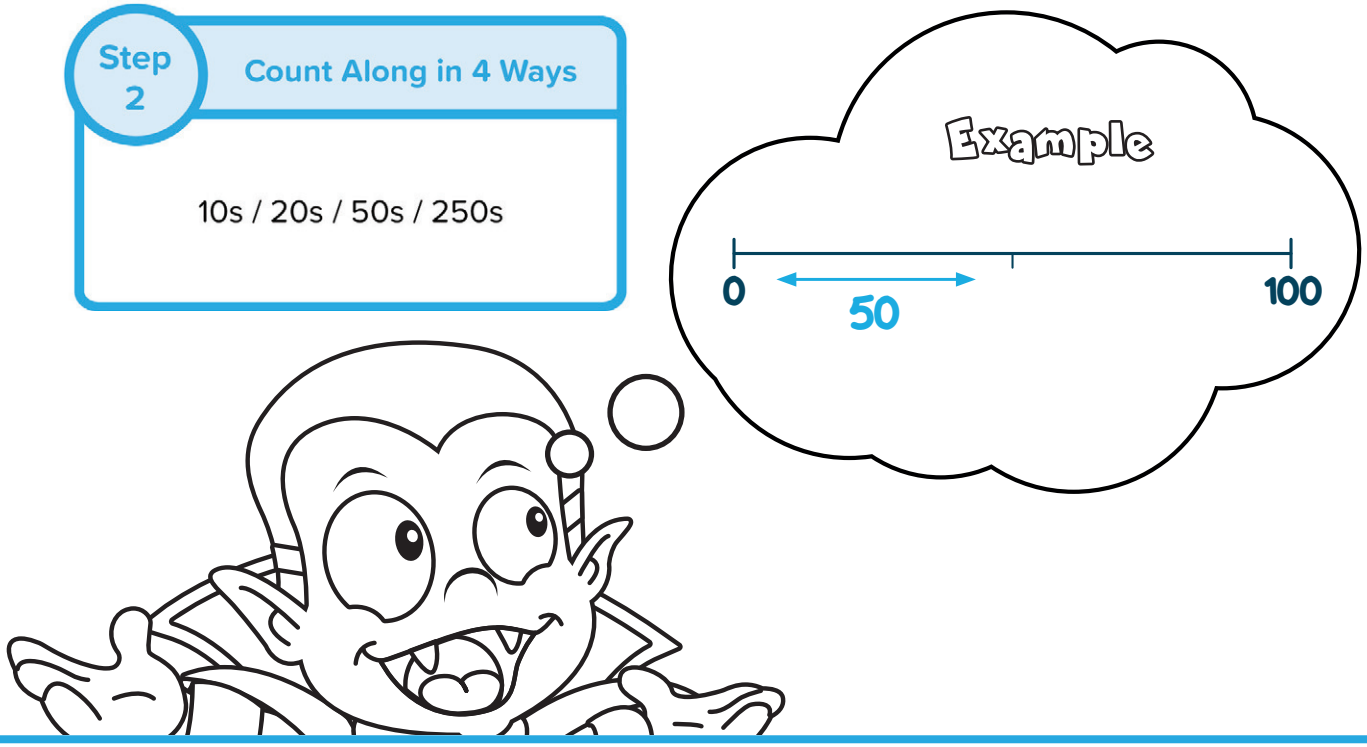


1. 60, 80, **100, 120, 140**
2. 160, 180, **200, 220, 240**
3. 200, 220, **240, 260, 280**
4. 360, 380, **400, 420, 440**
5. 520, 540, **560, 580, 600**
6. 280, 300, **320, 340, 360**
7. 760, 780, **800, 820, 840**
8. 440, 460, **480, 500, 520**
9. 820, 840, **860, 880, 900**
10. 660, 680, **700, 720, 740**

Repeat Questions

Step 2 — Count Along in 4 Ways

10s / 20s / 50s / 250s

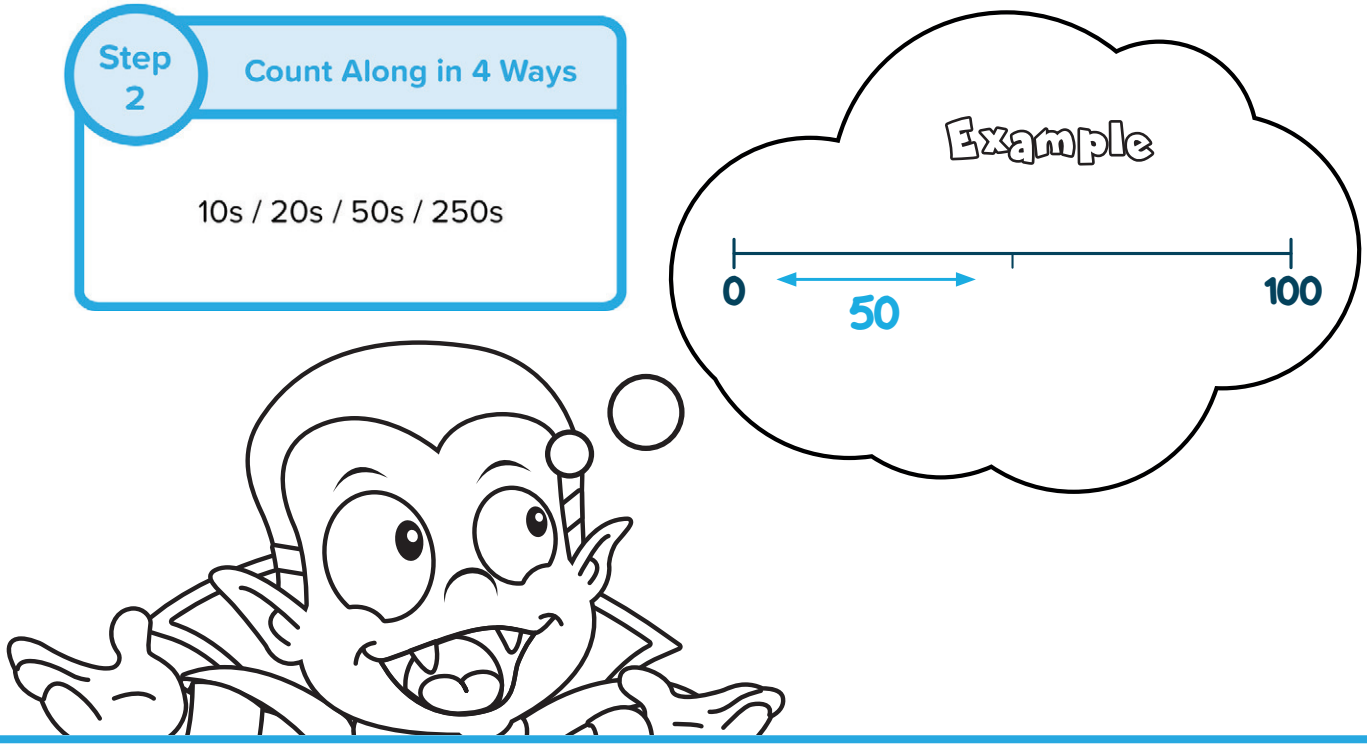


1. 50, 100,
2. 150, 200,
3. 250, 300,
4. 750, 800,
5. 400, 450,
6. 600, 650,
7. 350, 400,
8. 1050, 1100,
9. 500, 550,
10. 900, 950,

Repeat Answers

Step 2 Count Along in 4 Ways

10s / 20s / 50s / 250s

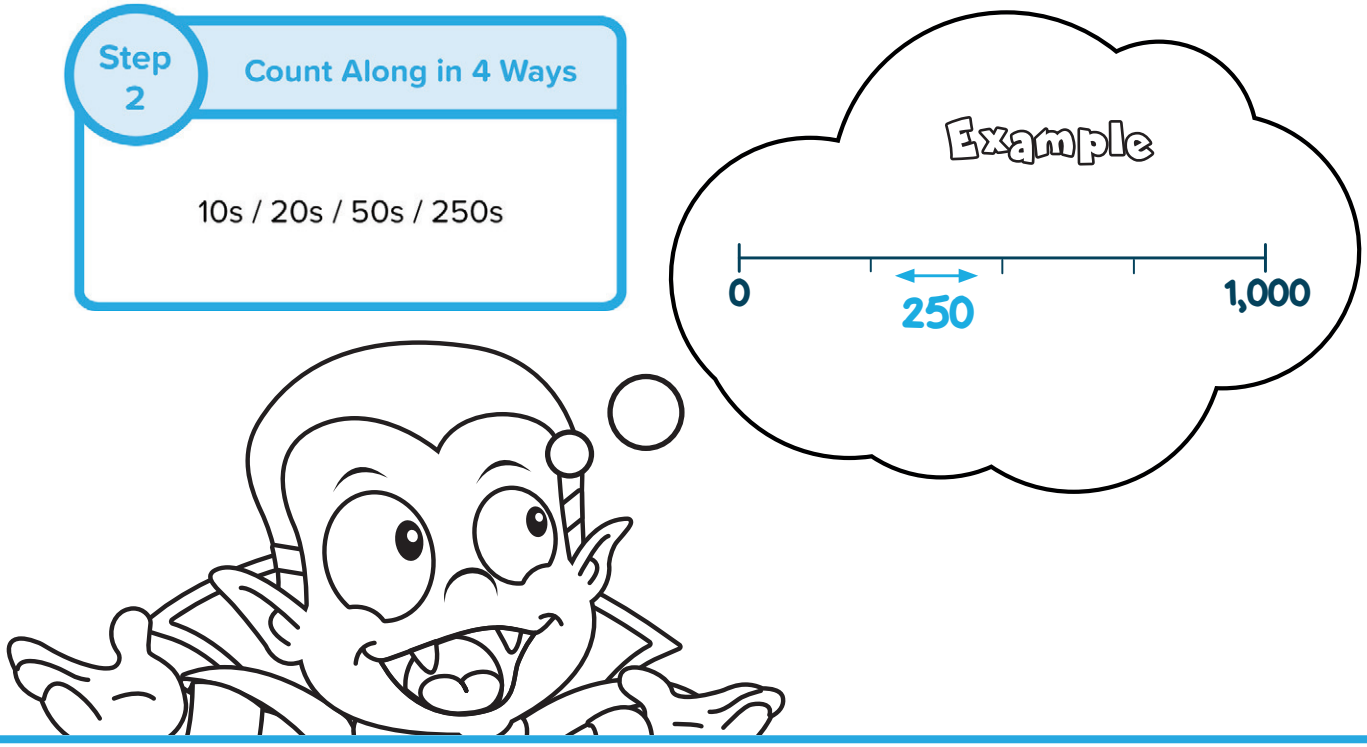


1. 50, 100, 150, 200, 250
2. 150, 200, 250, 300, 350
3. 250, 300, 350, 400, 450
4. 750, 800, 850, 900, 950
5. 400, 450, 500, 550, 600
6. 600, 650, 700, 750, 800
7. 350, 400, 450, 500, 550
8. 1050, 1100, 1150, 1200, 1250
9. 500, 550, 600, 650, 700
10. 900, 950, 1000, 1050, 1100

Repeat Questions

Step 2 — Count Along in 4 Ways

10s / 20s / 50s / 250s

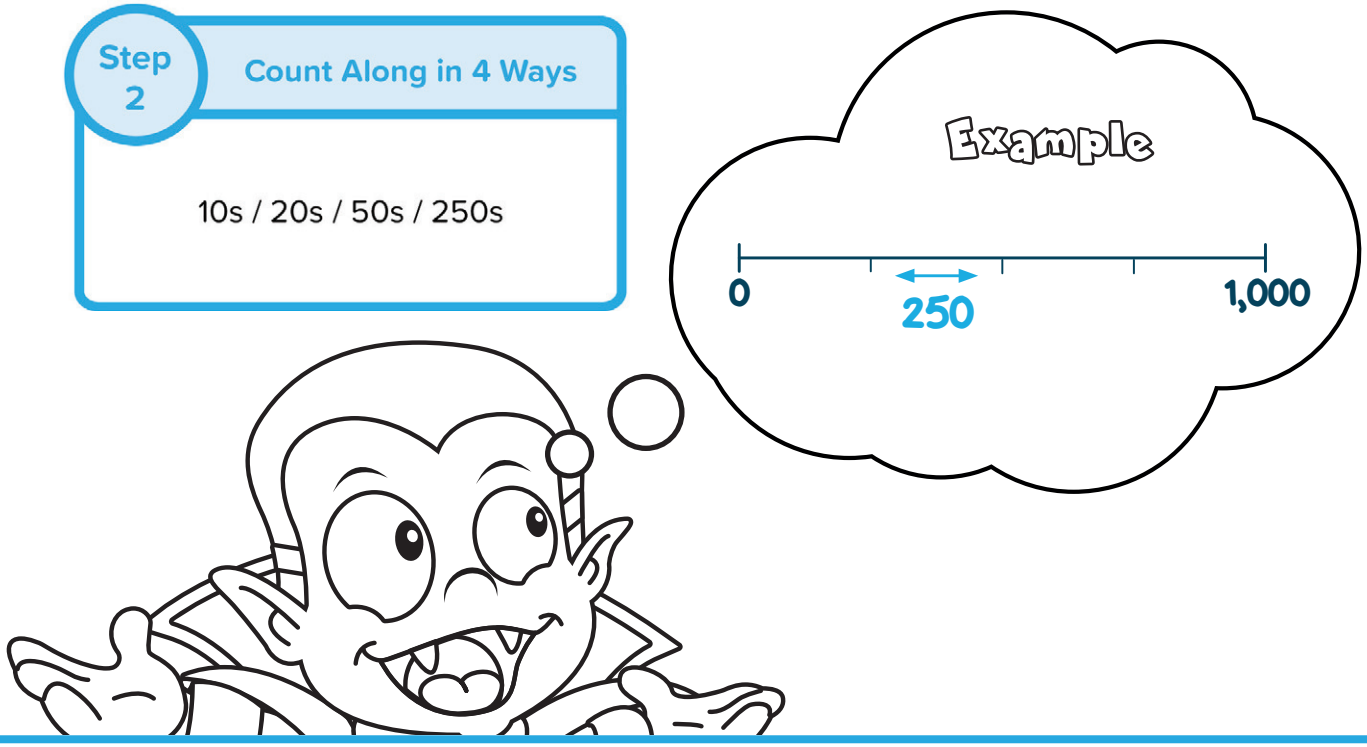


1. 0, 250,
2. 750, 1000,
3. 1500, 1750,
4. 2250, 2500,
5. 3000, 3250,
6. 4500, 4750,
7. 6000, 6250,
8. 7250, 7500,
9. 10250, 10500,
10. 12000, 12250,

Repeat Answers

Step 2 — Count Along in 4 Ways

10s / 20s / 50s / 250s

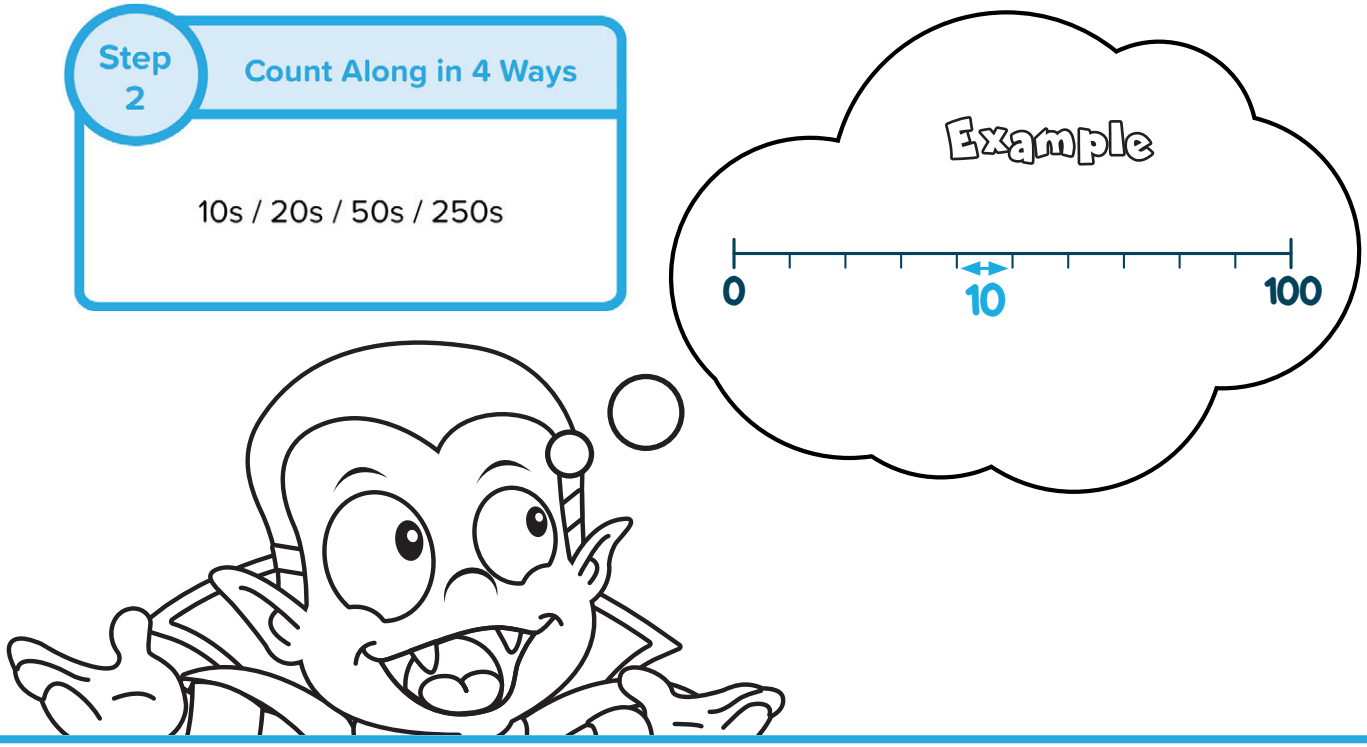


1. 0, 250, **500, 750, 1000**
2. 750, 1000, **1250, 1500, 1750**
3. 1500, 1750, **2000, 2250, 2500**
4. 2250, 2500, **2750, 3000, 3250**
5. 3000, 3250, **3500, 3750, 4000**
6. 4500, 4750, **5000, 5250, 5500**
7. 6000, 6250, **6500, 6750, 7000**
8. 7250, 7500, **7750, 8000, 8250**
9. 10250, 10500, **10750, 11000, 11500**
10. 12000, 12250, **12500, 12750, 13000**

Big Maths Revisit Questions

Step 2 Count Along in 4 Ways

10s / 20s / 50s / 250s

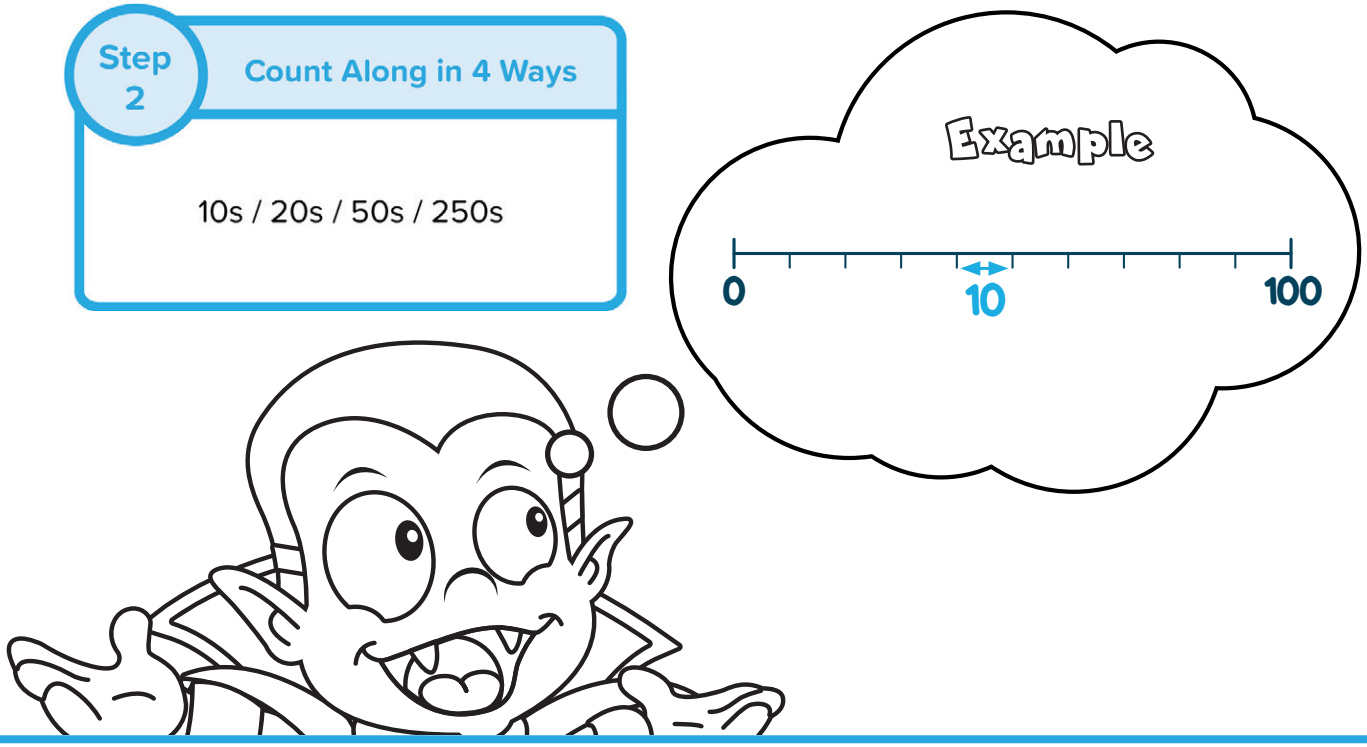


1. 10m, 20m,
2. 80cm, 90cm,
3. 160km, 170km,
4. 240g, 250g,
5. 310mg, 320mg,
6. 440L, 450L,
7. 750ml, 760ml,
8. 820s, 830s,
9. 940mm, 950mm,
10. 660kg, 670kg,

Big Maths Revisit Answers

Step 2 Count Along in 4 Ways

10s / 20s / 50s / 250s

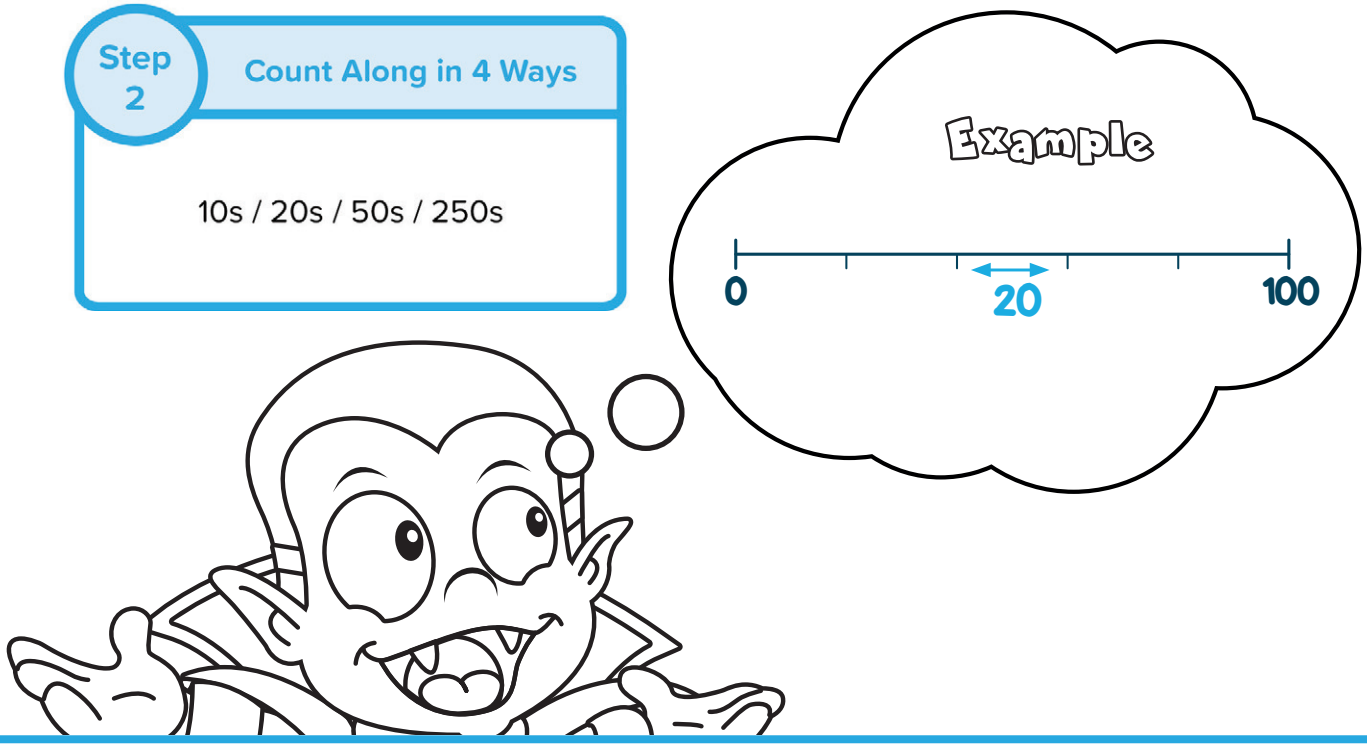


1. 10m, 20m, **30m, 40m, 50m**
2. 80cm, 90cm, **100cm, 110cm, 120cm**
3. 160km, 170km, **180km, 190km, 200km**
4. 240g, 250g, **260g, 270g, 280g**
5. 310mg, 320mg, **330mg, 340mg, 350mg**
6. 440L, 450L, **460L, 470L, 480L**
7. 750ml, 760ml, **770ml, 780ml, 790ml**
8. 820s, 830s, **840s, 850s, 860s**
9. 940mm, 950mm, **960mm, 970mm, 980mm**
10. 660kg, 670kg, **680kg, 690kg, 700kg**

Big Maths Revisit Questions

Step 2 Count Along in 4 Ways

10s / 20s / 50s / 250s

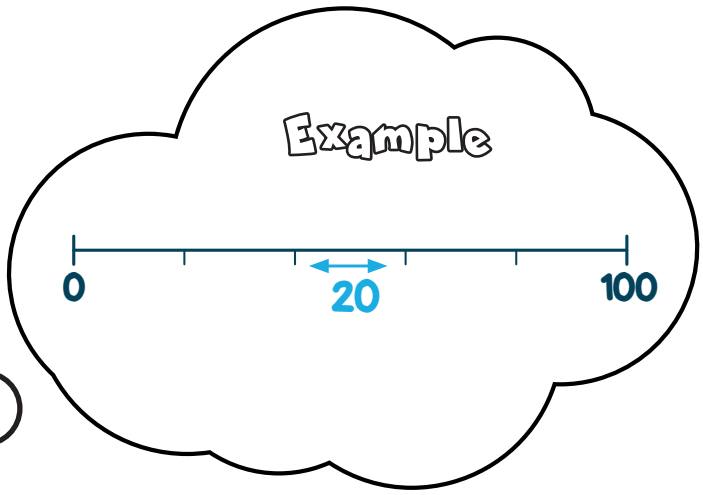


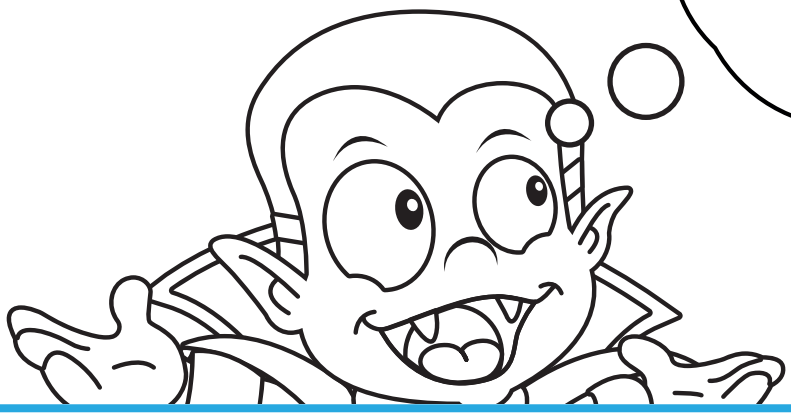
1. 60m, 80m,
2. 160cm, 180cm,
3. 200km, 220km,
4. 360g, 380g,
5. 520mg, 540mg,
6. 280L, 300L,
7. 760ml, 780ml,
8. 440s, 460s,
9. 820mm, 840mm,
10. 660kg, 680kg,

Big Maths Revisit Answers

Step 2 Count Along in 4 Ways

10s / 20s / 50s / 250s



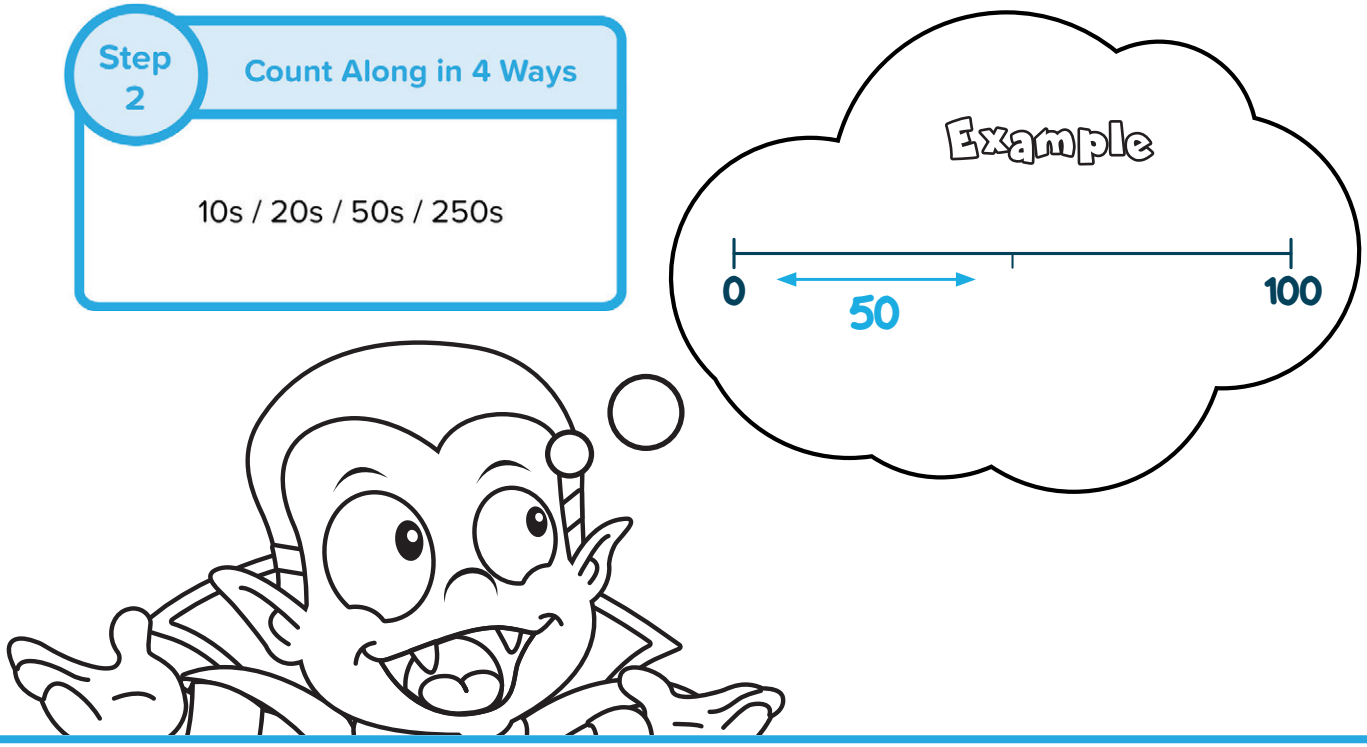


1. 60m, 80m, **100m, 120m, 140m**
2. 160cm, 180cm, **200cm, 220cm, 240cm**
3. 200km, 220km, **240km, 260km, 280km**
4. 360g, 380g, **400g, 420g, 440g**
5. 520mg, 540mg, **560mg, 580mg, 600mg**
6. 280L, 300L, **320L, 340L, 360L**
7. 760ml, 780ml, **800ml, 820ml, 840ml**
8. 440s, 460s, **480s, 500s, 520s**
9. 820mm, 840mm, **860mm, 880mm, 900mm**
10. 660kg, 680kg, **700kg, 720kg, 740kg**

Big Maths Revisit Questions

Step 2 Count Along in 4 Ways

10s / 20s / 50s / 250s

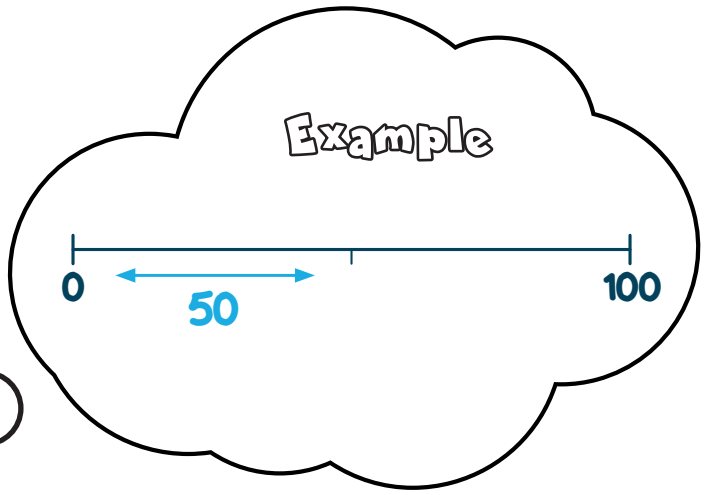


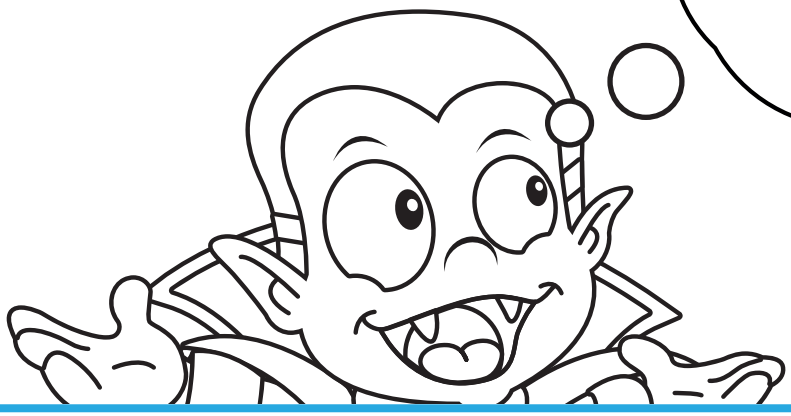
1. 750g, 800g,
2. 150cm, 200cm,
3. 600L, 650L,
4. 50m, 100m,
5. 1050s, 1100s,
6. 250km, 300km,
7. 350ml, 400ml,
8. 400mg, 450mg,
9. 500mm, 550mm,
10. 900kg, 950kg,

Big Maths Revisit Answers

Step 2 Count Along in 4 Ways

10s / 20s / 50s / 250s



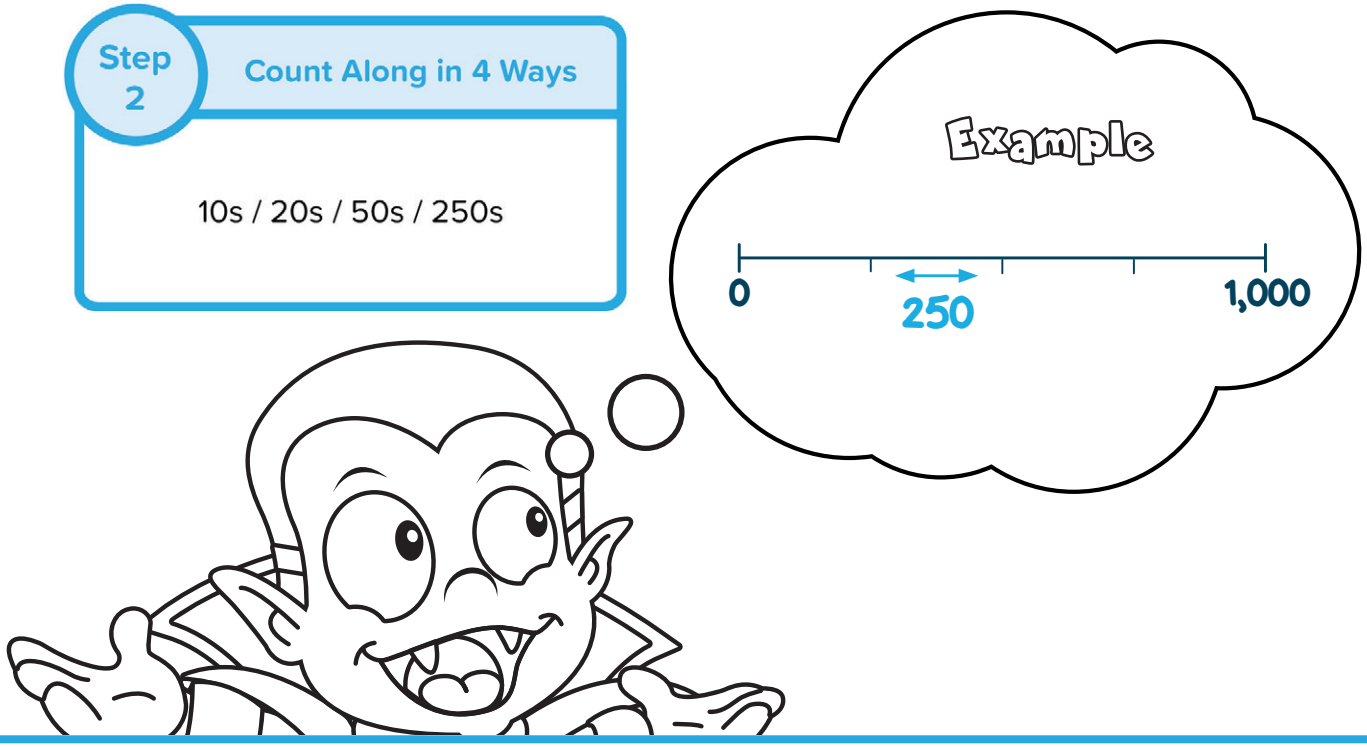


1. 750g, 800g, **850g, 900g, 950g**
2. 150cm, 200cm, **250cm, 300cm, 350cm**
3. 600L, 650L, **700L, 750L, 800L**
4. 50m, 100m, **150m, 200m, 250m**
5. 1050s, 1100s, **1150s, 1200s, 1250s**
6. 250km, 300km, **350km, 400km, 450km**
7. 350ml, 400ml, **450ml, 500ml, 550ml**
8. 400mg, 450mg, **500mg, 550mg, 600mg**
9. 500mm, 550mm, **600mm, 650mm, 700mm**
10. 900kg, 950kg, **1000kg, 1050kg,1100kg**

Big Maths Revisit Questions

Step 2 Count Along in 4 Ways

10s / 20s / 50s / 250s

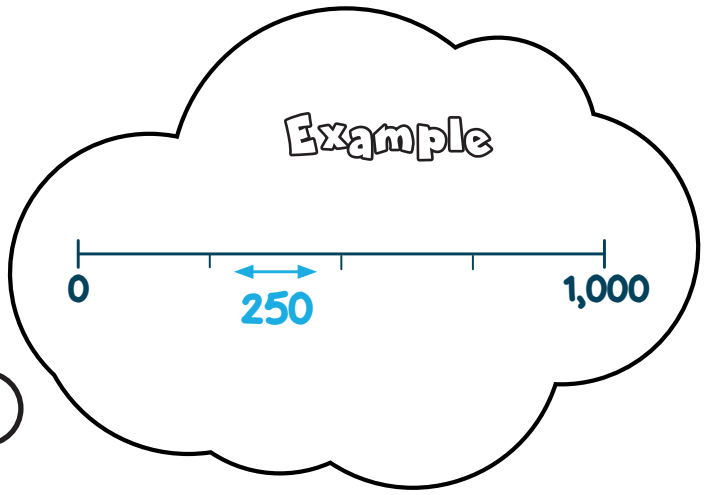


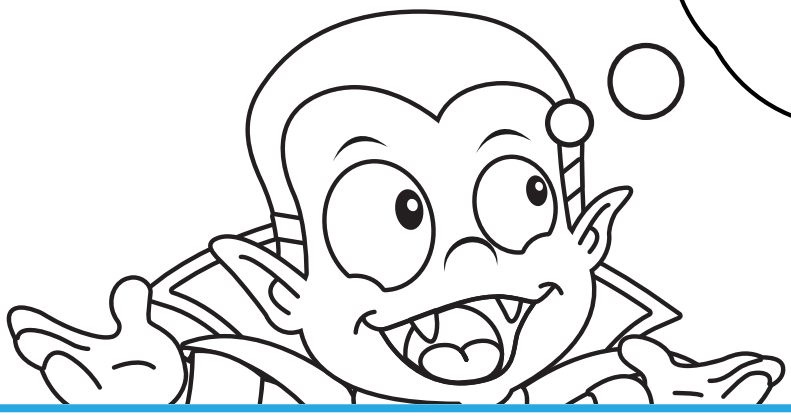
1. 0m, 250m,
2. 750cm, 1000cm,
3. 1500km, 1750km,
4. 2250g, 2500g,
5. 3000mg, 3250mg,
6. 4500L, 4750L,
7. 6000ml, 6250ml,
8. 7250s, 7500s,
9. 10250mm, 10500mm,
10. 12000kg, 12250kg,

Big Maths Revisit Answers

Step 2 Count Along in 4 Ways

10s / 20s / 50s / 250s





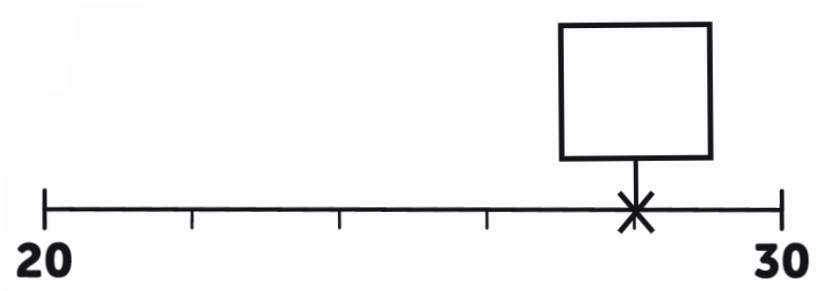
1. 0m, 250m, **500m, 750m, 1000m**
2. 750cm, 1000cm, **1250cm, 1500cm, 1750cm**
3. 1500km, 1750km, **2000km, 2250km, 2500km**
4. 2250g, 2500g, **2750g, 3000g, 3250g**
5. 3000mg, 3250mg, **3500mg, 3750mg, 4000mg**
6. 4500L, 4750L, **5000L, 5250L, 5500L**
7. 6000ml, 6250ml, **6500ml, 6750ml, 7000ml**
8. 7250s, 7500s, **7750s, 8000s, 8250s**
9. 10250mm, 10500mm, **10750mm, 11000mm, 11500mm**
10. 12000kg, 12250kg, **12500kg, 12750kg, 13000kg**

Question Practice Resources

Question 5 - I can still count along for all of Count Fourways' challenges

Question 5

This question challenges a child's ability to still count along for all of Count Fourways' challenges.



There is no new skill to be mastered here, it is just the confirmation that the child has the ability to cope with unlabelled divisions with number lines in context from all of the four ways discussed, and for all steps of progression.

Once the child has this skill, then we can ask them to find another number on the number line using this skill, and then, if their calculation ability allows, find the gap (difference) between the 2 values.

Question Practice Resources

Question 6 - I can find the missing piece to 1000

Remember to:

- make the units digits total 10
- make the tens digits total 9
- make the hundreds digits total 9

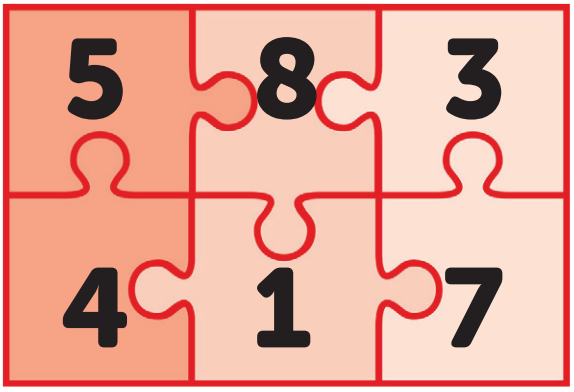
Repeat Questions

Step 4 — **INN: Number Bonds to 10**

I can find the missing piece to 1000

Remember to:

- make the units digits total 10
- make the tens digits total 9
- make the hundreds digit total 9



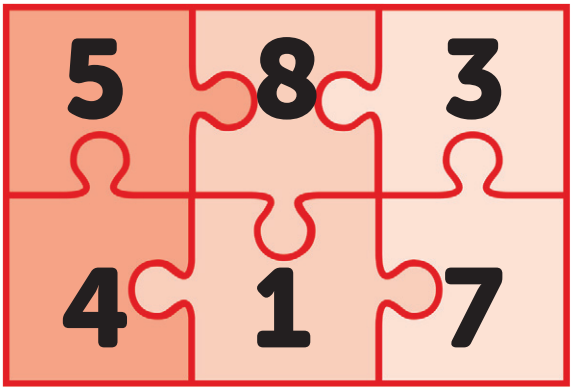
= 1000

1. 185 + ☐ = 1000
2. ☐ + 886 = 1000
3. 923 + ☐ = 1000
4. 738 + ☐ = 1000
5. 414 + ☐ = 1000
6. 583 + ☐ = 1000
7. ☐ + 489 = 1000
8. ☐ + 389 = 1000
9. 241 + ☐ = 1000
10. ☐ + 194 = 1000

Repeat Answers

Step 4 — **INN: Number Bonds to 10**

I can find the missing piece to 1000



= 1000

Remember to:

- make the units digits total 10
- make the tens digits total 9
- make the hundreds digit total 9

1. 185 + 815 = 1000
2. 114 + 886 = 1000
3. 923 + 77 = 1000
4. 738 + 262 = 1000
5. 414 + 586 = 1000
6. 583 + 417 = 1000
7. 511 + 489 = 1000
8. 611 + 389 = 1000
9. 241 + 759 = 1000
10. 806 + 194 = 1000

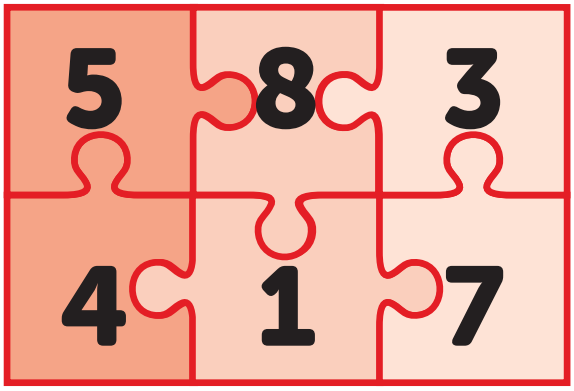
Big Maths Revisit Questions

Step 4 **INN: Number Bonds to 10**

I can find the missing piece to 1000

Remember to:

- make the units digits total 10
- make the tens digits total 9
- make the hundreds digit total 9



= 1000

1. 185m + ☐ = 1000m
2. ☐ + 886cm = 1000cm
3. 923km + ☐ = 1000km
4. 738g + ☐ = 1000g
5. 414mg + ☐ = 1000mg
6. 583L + ☐ = 1000L
7. ☐ + 489ml = 1000ml
8. ☐ + 389s = 1000s
9. 241mm + ☐ = 1000mm
10. ☐ + 194kg = 1000kg

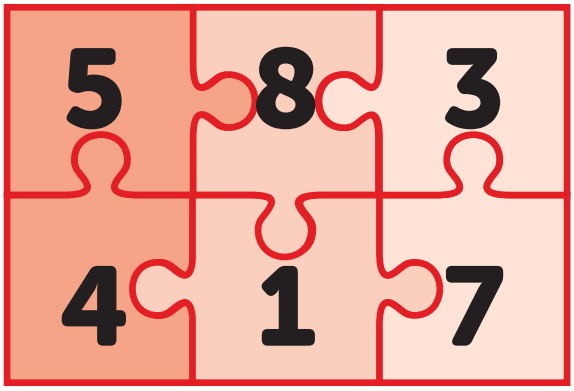
Big Maths **Revisit** Answers

Step 4 **INN: Number Bonds to 10**

I can find the missing piece to 1000

Remember to:

- make the units digits total 10
- make the tens digits total 9
- make the hundreds digit total 9



= 1000

1. 185m + **815m** = 1000m
2. **114cm** + 886cm = 1000cm
3. 923km + **77km** = 1000km
4. 738g + **262g** = 1000g
5. 414mg + **586mg** = 1000mg
6. 583L + **417L** = 1000L
7. **511ml** + 489ml = 1000ml
8. **611s** + 389s = 1000s
9. 241mm + **759mm** = 1000mm
10. **806kg** + 194kg = 1000kg

Real Life Maths Questions

Step 4 **INN: Number Bonds to 10**

I can find the missing piece to 1000

Remember to:

- make the (ones) units digits total 10
- make the tens digits total 9
- make the hundreds digit total 9

1 **Mully has 294 pears. He wants 1000 pears. How many more pears does he need?**

2 **Pim wants £1000. He has £546. How much more money does he need?**

3 **Speedy Col has a barrel containing 835L of water. The barrel can hold 1000L. How much liquid can she still pour in?**

4 **What is the missing piece: 686 + [ ] = 1000?**

5 **Pim has 371kg of sand. He needs 1000kg of sand. How much more sand does he need?**

Real Life Maths Answers

Step 4 — **INN: Number Bonds to 10**

I can find the missing piece to 1000

Remember to:

- make the (ones) units digits total 10
- make the tens digits total 9
- make the hundreds digit total 9

1 **Mully has 294 pears. He wants 1000 pears. How many more pears does he need?**

He needs 706 more pears.

2 **Pim wants £1000. He has £546. How much more money does he need?**

He needs £454.

3 **Speedy Col has a barrel containing 835L of water. The barrel can hold 1000L. How much liquid can she still pour in?**

She can still pour in 165L of water.

4 **What is the missing piece: 686 + [ ] = 1000?**

The missing piece is 314.

5 **Pim has 371kg of sand. He needs 1000kg of sand. How much more sand does he need?**

He needs 629kg of sand.

Question Practice Resources

Question 7 - I can multiply whole numbers by 100

Remember to:

- place 2 zeros on the units end
- remember that this moves the digits two places to the left
- remember that this makes the number 100 times bigger

Repeat Questions

Step 2 — Multiplying by 10

I can multiply whole numbers by 100

Remember To:

- place 2 zeros on the units end
- remember that this moves the digits two places to the left
- remember that this makes the number 100 times bigger

1. 56 x 100 =
2. 70 x 100 =
3. 27 x 100 =
4. 73 x 100 =
5. 65 x 100 =
6. 19 x 100 =
7. 77 x 100 =
8. 99 x 100 =
9. 86 x 100 =
10. 26 x 100 =

Repeat Answers

Step 2 — **Multiplying by 10**

I can multiply whole numbers by 100

Remember To:

- place 2 zeros on the units end
- remember that this moves the digits two places to the left
- remember that this makes the number 100 times bigger

1. 56 x 100 = 5600
2. 70 x 100 = 7000
3. 27 x 100 = 2700
4. 73 x 100 = 7300
5. 65 x 100 = 6500
6. 19 x 100 = 1900
7. 77 x 100 = 7700
8. 99 x 100 = 9900
9. 86 x 100 = 8600
10. 26 x 100 = 2600

Big Maths Revisit Questions

Step 2 — **Multiplying by 10**

I can multiply whole numbers by 100

Remember To:

- place 2 zeros on the units end
- remember that this moves the digits two places to the left
- remember that this makes the number 100 times bigger

1. **56m x 100 =**
2. **70cm x 100 =**
3. **27km x 100 =**
4. **73g x 100 =**
5. **65mg x 100 =**
6. **19L x 100 =**
7. **77ml x 100 =**
8. **99s x 100=**
9. **86mm x 100 =**
10. **26kg x 100 =**

Revisit Answers

Step 2 — Multiplying by 10

I can multiply whole numbers by 100

Remember To:

- place 2 zeros on the units end
- remember that this moves the digits two places to the left
- remember that this makes the number 100 times bigger

1. 56m x 100 = **5600m**
2. 70cm x 100 = **7000cm**
3. 27km x 100 = **2700km**
4. 73g x 100 = **7300g**
5. 65mg x 100 = **6500mg**
6. 19L x 100 = **1900L**
7. 77ml x 100 = **7700ml**
8. 99s x 100 = **9900s**
9. 86mm x 100 = **8600mm**
10. 26kg x 100 = **2600kg**

Real Life Maths Questions

Step 2 — **Multiplying by 10**

I can multiply whole numbers by 100

Remember to:

- place 2 zeros on the ones (units) end
- remember that this moves the digits two place to the left
- remember that this makes the number 100 times bigger

1 **Pim has 12 boxes. Each box has 100 cherries. How many cherries are there in total?**

2 **There are 43 people at a party. Each person gets 100g of sweets. How many grams of sweets are there in total?**

3 **A computer game costs £18. I want to buy 100 copies. How much does that cost?**

4 **A box of rocks weighs 74kg. There are 100 boxes. What is the total weight?**

5 **Pim has 59 jugs of water. Each jug contains 100ml. How many millilitres of water is there in total?**

Real Life Maths Answers

Step 2 — **Multiplying by 10**

I can multiply whole numbers by 100

Remember to:

- place 2 zeros on the ones (units) end
- remember that this moves the digits two place to the left
- remember that this makes the number 100 times bigger

1 **Pim has 12 boxes. Each box has 100 cherries. How many cherries are there in total?**

There are 1200 cherries in total.

2 **There are 43 people at a party. Each person gets 100g of sweets. How many grams of sweets are there in total?**

There are 4300g of sweets.

3 **A computer game costs £18. I want to buy 100 copies. How much does that cost?**

It costs £1800.

4 **A box of rocks weighs 74kg. There are 100 boxes. What is the total weight?**

The total weight is 7400kg.

5 **Pim has 59 jugs of water. Each jug contains 100ml. How many millilitres of water is there in total?**

There is 5900ml of water.

Question Practice Resources

Question 8 - I can solve any 1 digit x 1 digit

Remember to:

- Learn It!

Repeat Questions

Step 12

Multiplication

I can solve any 1d x 1d

Remember To:

- Learn It!

1. 1 x 8 =
2. 3 x 7 =
3. 8 x 2 =
4. 3 x 5 =
5. 1 x 5 =
6. 5 x 4 =
7. 9 x 9 =
8. 2 x 2 =
9. 5 x 3 =
10. 1 x 6 =

Repeat Answers

Step 12

Multiplication

I can solve any 1d x 1d

Remember To:

- Learn It!

1. 1 x 8 = 8
2. 3 x 7 = 21
3. 8 x 2 = 16
4. 3 x 5 = 15
5. 1 x 5 = 5
6. 5 x 4 = 20
7. 9 x 9 = 81
8. 2 x 2 = 4
9. 5 x 3 = 15
10. 1 x 6 = 6

Big Maths Revisit Questions

Step 12 — **Multiplication**

I can solve any 1d x 1d

Remember To:

- Learn It!

1. 1m x 9 =
2. 3cm x 7 =
3. 8 x 2km =
4. 3 x 5g =
5. 7mg x 5 =
6. 5L x 4 =
7. 9ml x 9 =
8. 2s x 2 =
9. 5 x 3mm =
10. 5 x 6kg =

Big Maths **Revisit** Answers

Step 12

Multiplication

I can solve any 1d x 1d

Remember To:

- Learn It!

1. 1m x 9 = 9m
2. 3cm x 7 = 21cm
3. 8 x 2km = 16km
4. 3 x 5g = 15g
5. 7mg x 5 = 35mg
6. 5L x 4 = 20L
7. 9ml x 9 = 81ml
8. 2s x 2 = 4s
9. 5 x 3mm = 15mm
10. 5 x 6kg = 30kg

Real Life Maths Questions

Step 12 — **Multiplication**

I can solve any 1d x 1d

Remember to:

- Learn It!

1. **Pim has 8 boxes. Each box has 8 apples. How many apples are there in total?**

2. **There are 6 people at a party. Each person gets 7 sweets. How many sweets are there in total?**

3. **A box of tomatoes costs £8. I want to buy 9 boxes. How much does that cost?**

4. **I have 6 boxes of pears. Each box weighs 9kg. What is the total weight?**

5. **Pim has 8 jugs of water. Each jug contains 7L. How much is there in total?**

Real Life Maths Answers

Step 12

Multiplication

I can solve any 1d x 1d

Remember to:

- Learn It!

1. **Pim has 8 boxes. Each box has 8 apples. How many apples are there in total?**

   There are 64 apples in total.

2. **There are 6 people at a party. Each person gets 7 sweets. How many sweets are there in total?**

   There are 42 sweets in total.

3. **A box of tomatoes costs £8. I want to buy 9 boxes. How much does that cost?**

   It costs £72.

4. **I have 6 boxes of pears. Each box weighs 9kg. What is the total weight?**

   The total weight is 54kg.

5. **Pim has 8 jugs of water. Each jug contains 7L. How much is there in total?**

   There is 56L in total.

Big Maths Select Questions

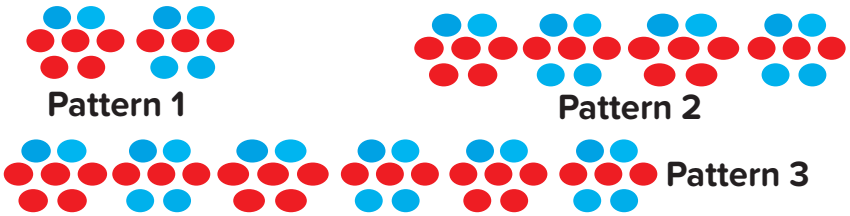
Step 12 — **Multiplication**

I can solve any 1d x 1d

Remember To:

- Learn It!

1



How many red and blue dots are there in pattern number eight?

2

What is the total number of vertices on this set of wooden cubes?

3

Which is the odd one out?

$(6 \times 9Kg) + (7 \times 8Kg)$

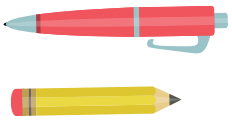
$\frac{2}{3} \times 165Kg$

$\frac{1}{5}$ of $450Kg$

4

Cup cakes are sold in packs of six.
Ryan needs fifty cup cakes for a birthday party.
How many packs will he need to buy?

5



Pens are 12cm long. Pencils are 8 cm long.
Melissa places three pens and nine pencils end-to-end in one straight line. Is the length of the line more than one metre? How could she make the line measure exactly one metre?

Select Answers

Step 12 — **Multiplication**

I can solve any 1d x 1d

Remember To:

- Learn It!

1

In pattern number eight there are 64 red dots and 48 blue dots.

2

There are 24 vertices on this set of wooden cubes.

3

$(6 \times 9Kg) + (7 \times 8Kg)$ $\quad \frac{2}{3} \times 165Kg$

$\frac{1}{5}$ of $450Kg$

4

He will need to buy 9 packs of cup cakes.

5

Yes, the length of the line is 108cm. To make a line of exactly 1m Melissa would have to place 5 pens and 5 pencils back to back.

Question Practice Resources

Question 9 - I can solve any 4 digit - 2 digit or 4 digit - 3 digit

Repeat Questions

Step 6 — **Subtraction Column Methods**

I can solve any 4d - 2d or 3d

Example

$$\begin{array}{r} {}^{4}\cancel{5}{}^{1}\cancel{6}{}^{7}\cancel{8}{}^{1}6 \\ -\ 749 \\ \hline 4937 \end{array}$$

1. 6436 - 312
2. 6295 - 898
3. 8321 - 754
4. 6232 - 159
5. 1233 - 15
6. 1719 - 290
7. 5342 - 80
8. 1264 - 90
9. 8866 - 54
10. 1152 - 14

Repeat Answers

Step 6 — **Subtraction Column Methods**

I can solve any 4d - 2d or 3d

Example

$$\begin{array}{r} {}^{4}\cancel{5}{}^{1}\cancel{6}{}^{7}\cancel{8}{}^{1}6 \\ -\ 749 \\ \hline 4937 \end{array}$$

1. 6436 - 312 = 6124
2. 6295 - 898 = 5397
3. 8321 - 754 = 7567
4. 6232 - 159 = 6073
5. 1233 - 15 = 1218
6. 1719 - 290 = 1429
7. 5342 - 80 = 5262
8. 1264 - 90 = 1174
9. 8866 - 54 = 8812
10. 1152 - 14 = 1138

Question Practice Resources

Question 10 - I can solve 2 digit ÷ 1 digit (using x2, 3, 4, 5) with no remainders

Repeat Questions

Step 2

Division Column Methods

I can solve a 2d ÷ 1d (using x 2,3,4,5) No remainders inside the answer

Example

$$3 \overline{)81} = 27$$

1. 42 ÷ 2
2. 36 ÷ 3
3. 72 ÷ 2
4. 36 ÷ 4
5. 95 ÷ 5
6. 20 ÷ 4
7. 16 ÷ 2
8. 28 ÷ 2
9. 24 ÷ 3
10. 40 ÷ 5

Repeat Answers

Step 2 — **Division Column Methods**

I can solve a 2d ÷ 1d (using x 2,3,4,5) No remainders inside the answer

Example

$$3 \overline{)81} = 27$$

1. 42 ÷ 2 = 21
2. 36 ÷ 3 = 12
3. 72 ÷ 2 = 36
4. 36 ÷ 4 = 9
5. 95 ÷ 5 = 19
6. 20 ÷ 4 = 5
7. 16 ÷ 2 = 8
8. 28 ÷ 2 = 14
9. 24 ÷ 3 = 8
10. 40 ÷ 5 = 8