

Reasoning – One and Two Step Problems

Information:

These questions have been taken from the KS1 Reasoning test to help your children practice specific question types.

National Curriculum Objectives:

Mathematics Year 1: (1C4) [solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as \$7 = - ?\$](#)

Mathematics Year 1: (1C8) [solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher](#)

Mathematics Year 2: (2C4) [solve problems with addition and subtraction: • using concrete objects and pictorial representations, including those involving numbers, quantities and measures • applying their increasing knowledge of mental and written methods](#)

Mathematics Year 2: (2C8) [solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts](#)

Differentiation:

Beginner Solve one-step problems involving addition, subtraction, doubling and halving. Numbers up to 10. Pictorial representations and one-to-one correspondence used. Aimed at Year 1 Developing.

Easy Solve one-step problems involving addition, subtraction, multiplication and halving. Numbers up to 30. Pictorial representations and one-to-one correspondence used. Aimed at Year 1 Expected.

Tricky Solve one and two-step problems involving addition, subtraction, multiplication and division (2 and 10 times tables). Numbers up to 50. Some pictorial representations used. Aimed at Year 1 Greater Depth/Year 2 Developing.

Expert Solve two-step problems involving addition, subtraction, multiplication and division (2, 5 and 10 times tables). Numbers up to 100. Some pictorial representations used. Aimed at Year 2 Expected.

Brainbox Solve multi-step problems involving addition, subtraction, multiplication and division (2, 3, 5 and 10 times tables). Numbers up to 100. Some pictorial representations used. Aimed at Year 2 Greater Depth.

More [Reasoning](#) resources.

Did you like this resource? Don't forget to [review](#) it on our website.

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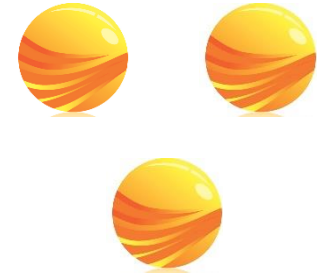
One and Two Step Problems – Teaching Information

Reasoning – One and Two Step Problems



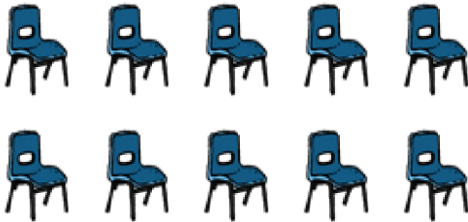
1. Molly and Fernando share eight sweets equally. How many sweets do they get each?

sweets



2. Francine has four blue marbles and three yellow marbles. How many marbles does she have altogether?

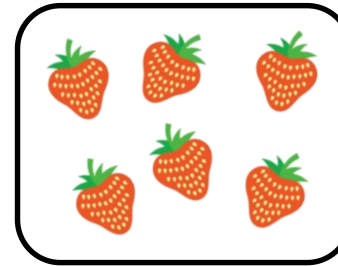
marbles



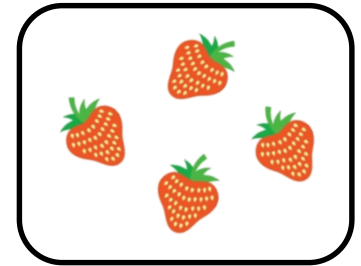
3. Henry has organised some chairs into 2 rows of 5 for the class assembly. How many chairs has he used?

chairs

George's strawberries



Yasmin's strawberries



4. George and Yasmin have been strawberry picking. How many more strawberries did George pick?

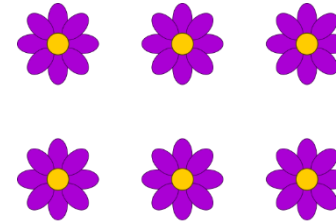
strawberries

Reasoning – One and Two Step Problems



5. Catherine has four special coins in her collection. Kylie has double as many. How many does Kylie have?

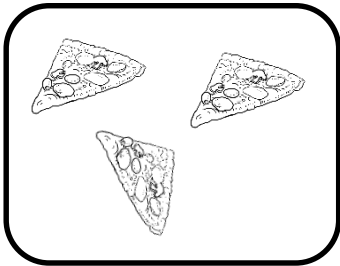
coins



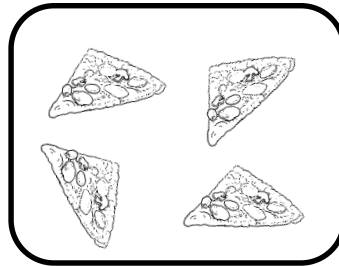
6. Malik has picked six flowers. She gave four to her friend. How many flowers does Malik have left?

flowers

Mo's pizza

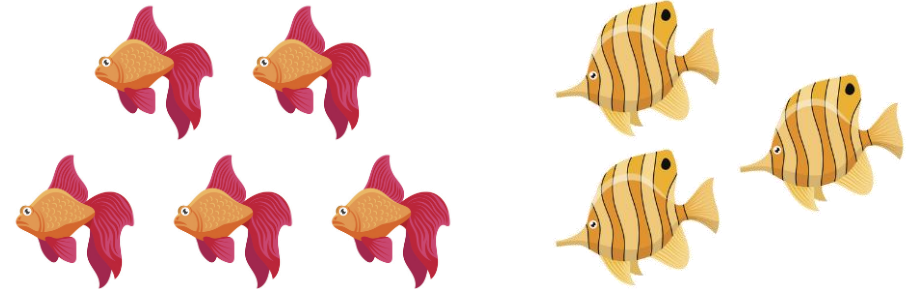


Keiron's pizza



7. Mo and Keiron are sharing a pizza. Mo eats three slices. Keiron eats four. How many do they eat altogether?

slices



8. Bohuslav has five fish in his tank. He bought three more fish. How many fish does he have now?

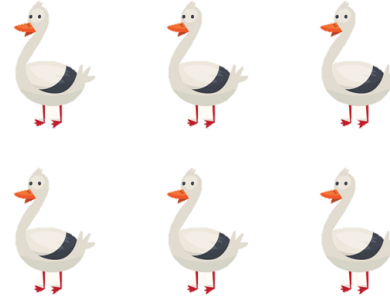
fish

Reasoning – One and Two Step Problems



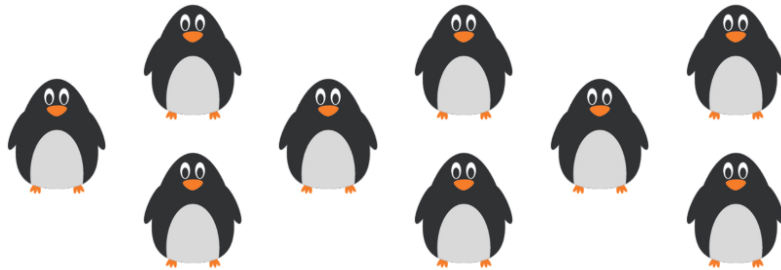
9. Vi has picked ten flowers and wants to share them equally with her friend. How many flowers will they each get?

flowers



10. At the farm, there are six ducks and two cockerels. How many birds are there altogether?

birds



11. At the zoo, Huw saw nine penguins. Gilly saw three fewer penguins. How many did she see?

penguins



12. Ishmael is organising his toys. He can group his toys into two piles of four. How many toys does he have altogether?

toys

Reasoning – One and Two Step Problems

Kaitlyn's flowers



Harry's flowers



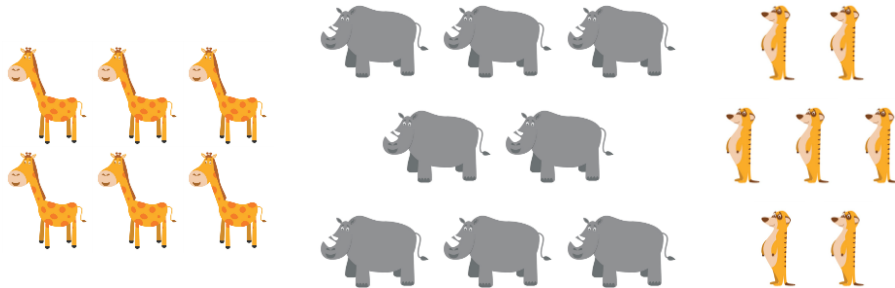
1. Kaitlyn and Harry have been collecting flowers. How many more flowers does Harry have?

flowers



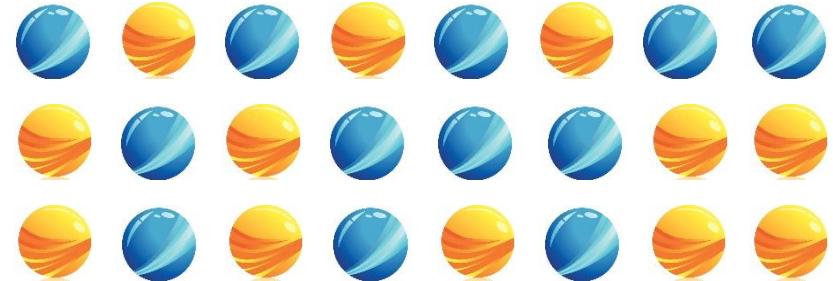
2. Tyrell went strawberry picking yesterday. He has grouped his strawberries to make them easier to count. How many strawberries did he pick?

strawberries



3. Year 4 went to the zoo. They counted the number of each animal that they saw. How many animals did they see altogether?

animals



4. Nursarah has some marbles. She shares them equally between her and her friend. How many marbles do they have each?

marbles

Reasoning – One and Two Step Problems



5. Uma has picked some flowers and wants to share them equally with her friend. How many flowers will they each get?

flowers

Rachel's toys



Isaac's toys



6. Rachel is comparing her toys with her friend Isaac. How many more toys does Rachel have than Isaac?

toys



7. At the farm, Zak saw twenty-four sheep. Frankie saw fifteen fewer sheep. How many did she see?

sheep



8. Joe had thirteen coins in his collection. His friend gives him twelve more. How many coins does he have in his collection now?

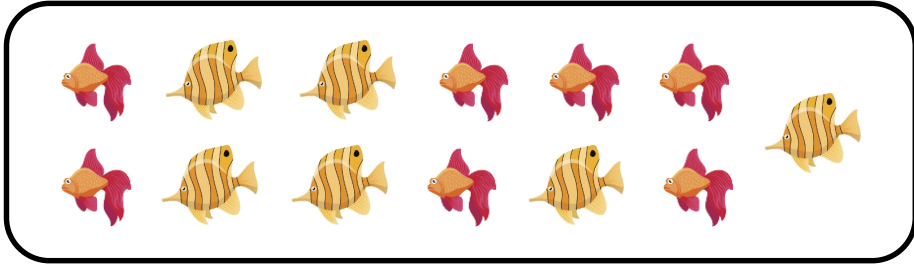
coins

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One and Two Step Problems – Worksheet 2 – Easy

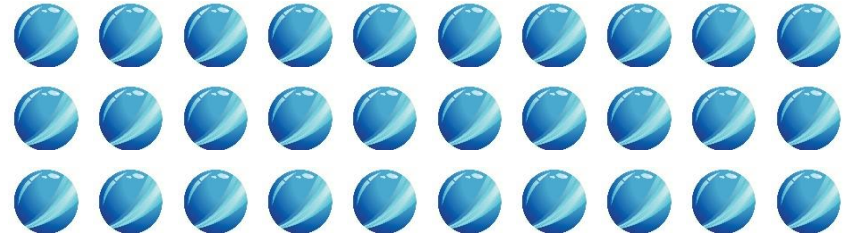
Reasoning – One and Two Step Problems

Maggie's fish



9. Maggie has some fish in her tank. Her sister Pauline has twice as many fish. How many fish does Pauline have?

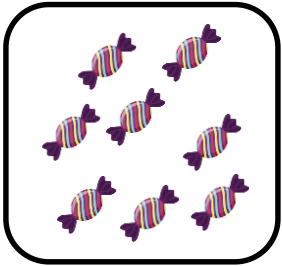
fish



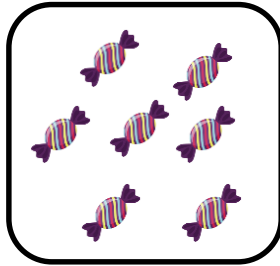
10. Sally and Hercules have collected some marbles. They share them equally into ten groups. How many marbles will be in each group?

marbles

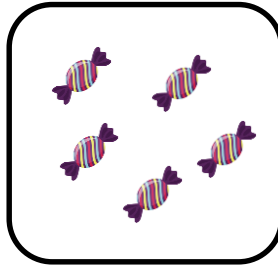
Thayra's sweets



Johnathan's sweets



Georgi's sweets



11. Thayra, Johnathan and Georgi group all of their sweets together. How many sweets do they have?

sweets

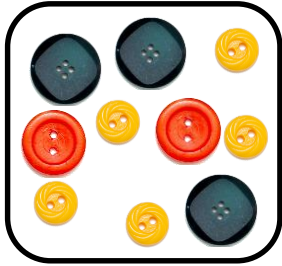


12. Sadie is sharing a chocolate bar with her friends. Sadie eats nine pieces. How many pieces are left?

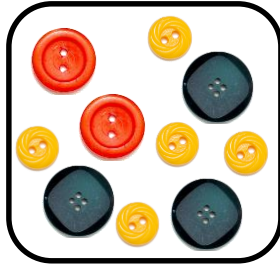
pieces

Reasoning – One and Two Step Problems

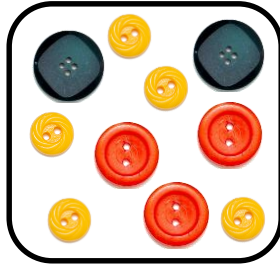
Daryl's buttons



Yvonne's buttons



Stevie's buttons



1. Daryl, Stevie and Yvonne have collected some buttons for an art project. They want to share them equally into 10 bags. How many buttons will be in each bag?

buttons



10 eggs



10 eggs



10 eggs

2. A farmer has collected eggs from their chicken coop. She wants to use 5 eggs for a recipe. How many eggs will she have left?

eggs



3. George is organising his toys. He can group his toys into three piles of four. How many groups of two could he make?

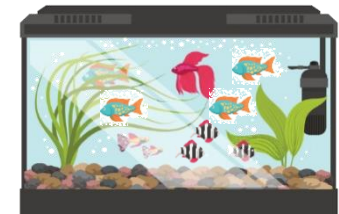
groups



10 fish



5 fish



10 fish



5 fish

4. A doctor's surgery has fish tanks in each room. The reception also has a tank with 12 fish. How many fish are there in the surgery altogether?

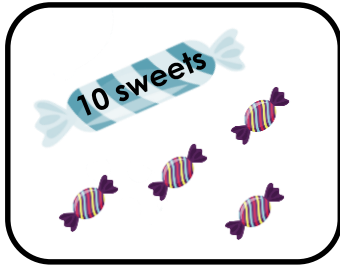
fish

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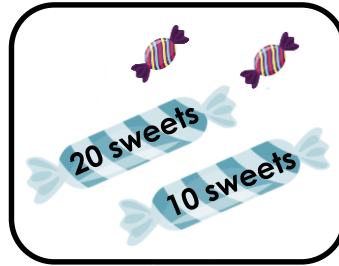
One and Two Step Problems – Worksheet 1 – Tricky

Reasoning – One and Two Step Problems

Matthew's sweets



Molly's sweets



5. Molly and Matthew have been trick or treating. They want to share their sweets equally between them. How many sweets will they each get?

sweets



6. Three friends are eating chocolate. James eats 9 pieces, Jasmine eats 12 and Charlie eats some. There are 14 pieces left. How many pieces does Charlie eat?

pieces



4 seeds



3 seeds



5 seeds

7. A gardener is planting seeds. He wants to plant 23 seeds in total. How many more does he need to plant?

seeds



8. Joe collects 8 marbles. His friend collects double the amount. How many marbles do they have altogether?

marbles

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One and Two Step Problems – Worksheet 2 – Tricky

Reasoning – One and Two Step Problems



10 trophies



10 trophies



5 trophies

9. Here is Kelly's trophy collection. She thinks that it will take her 2 minutes to clean each trophy. How long will she spend cleaning altogether?

minutes



10. Jules has 5 jars. Each jar holds 10 sweets. How many sweets can Jules keep altogether?

sweets



10 toys



5 toys



10 toys



10 toys



11. Bonnie has organised her toys into boxes. She has another twelve toys for the final box. How many toys will she have altogether?

toys



12. A florist has displayed flowers in vases. Each flower has ten petals. How many petals are there altogether?

petals

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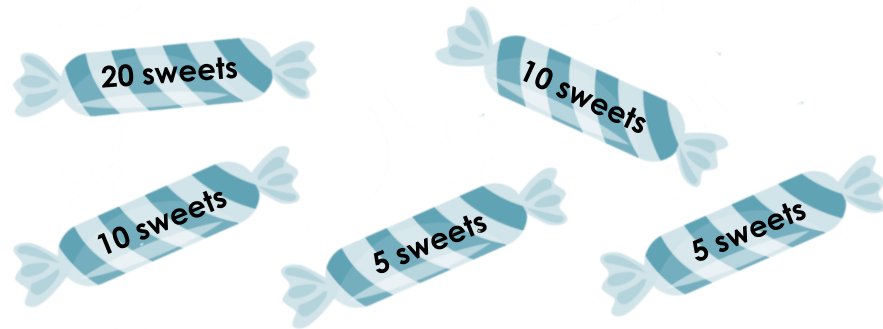
One and Two Step Problems – Worksheet 3 – Tricky

Reasoning – One and Two Step Problems



1. Holly and Simon share these sweets equally. How many sweets do they get each?

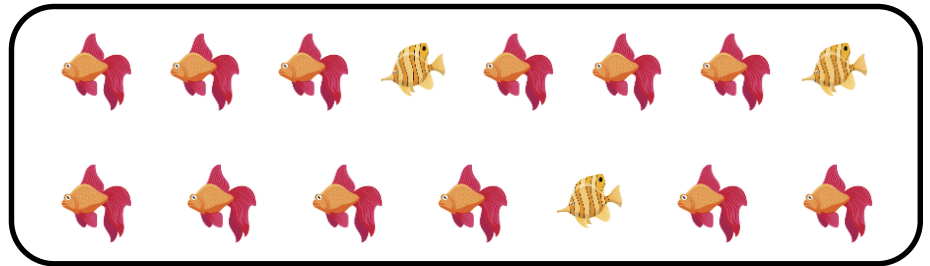
sweets



3. Five friends have been trick or treating. They want to share their sweets equally between them. How many sweets will they get each?

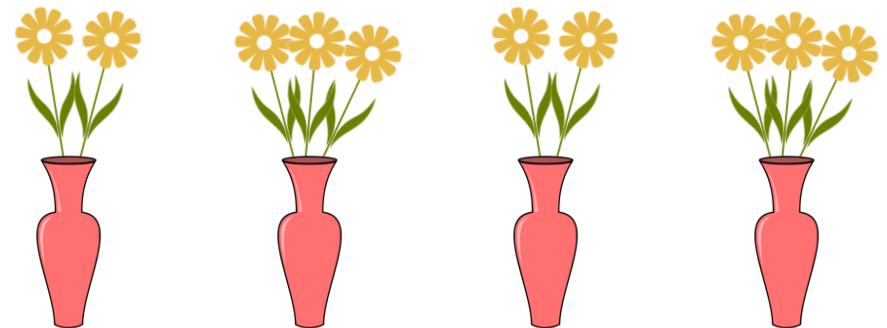
sweets

Neil's fish



2. Neil has some fish in his tank. His brother Owen has ten times as many yellow fish. How many fish does Owen have?

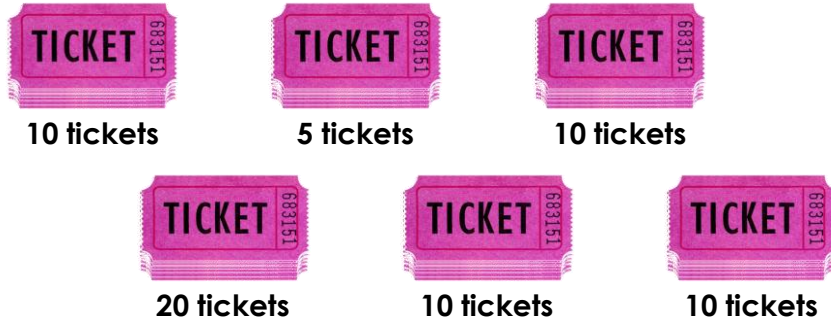
fish



4. A florist has displayed flowers in vases. Each flower has ten petals. Fourteen petals fall off. How many petals are there left?

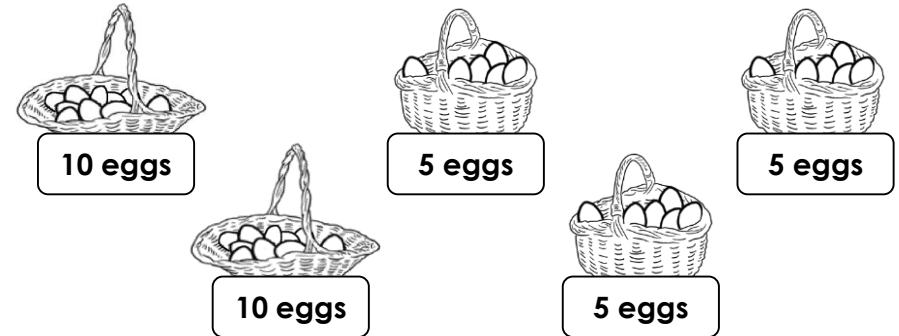
petals

Reasoning – One and Two Step Problems



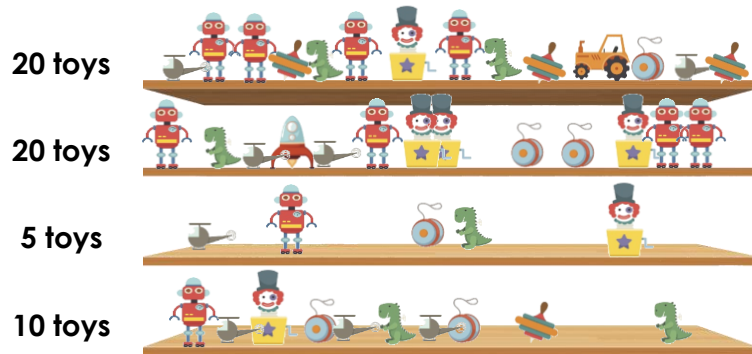
5. Jamie has collected these tickets from the amusement park. He wants a toy that costs 92 tickets. How many more tickets does he need to collect?

tickets



6. A farmer has collected eggs from his chicken coop. Each egg can be used to make two cakes. How many cakes can be made from these eggs?

cakes



7. Ezra is sorting his toys onto these shelves. He finds 24 more toys under his bed. How many toys does he have altogether?

toys



8. A playgroup has lots of packets of pens, each with different numbers in. Eight of the pens have dried up. How many of the pens work?

pens

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One and Two Step Problems – Worksheet 2 – Expert

Reasoning – One and Two Step Problems



9. There are 100 tickets available for a football match. Annie sells fourteen. David sells twice this amount. How many tickets are left?

tickets



5 seeds



10 seeds



20 seeds



5 seeds



20 seeds



15 seeds

10. A farmer is planting seeds in pots. Each seed will need its own pot. There are seventy pots in the cupboard. How many more pots are needed?

pots



5 trophies



2 trophies



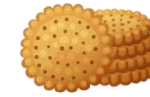
5 trophies

11. Here is Olga's trophy collection. She thinks that it will take her 5 minutes to clean each trophy. How long will she spend cleaning the trophies?

minutes



10 biscuits



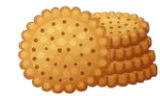
5 biscuits



20 biscuits



5 biscuits

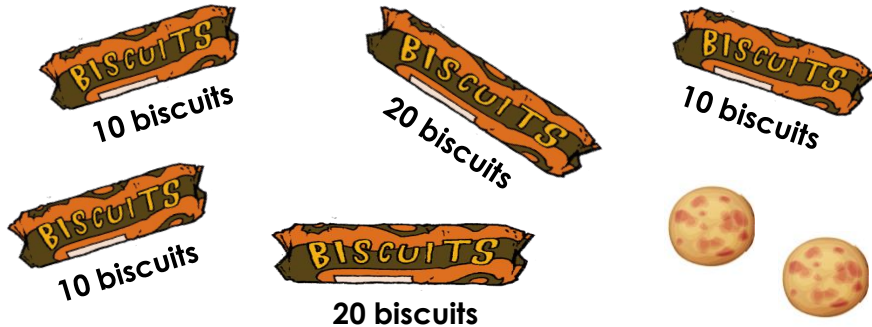


5 biscuits

12. Luka shares these biscuits equally between five tins. How many biscuits will be in each tin?

biscuits

Reasoning – One and Two Step Problems



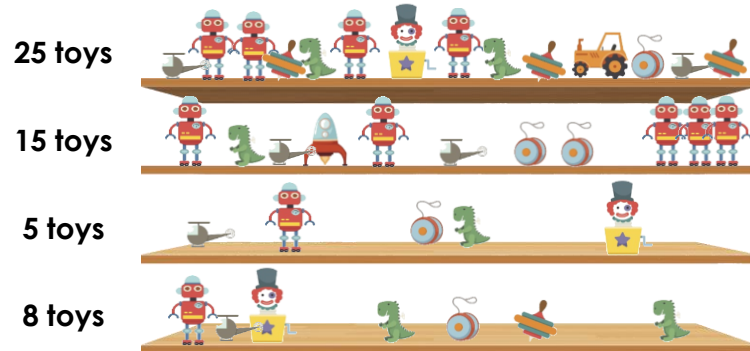
1. Henrietta eats seven biscuits then shares the rest equally between five biscuit tins. How many biscuits will be in each tin?

biscuits



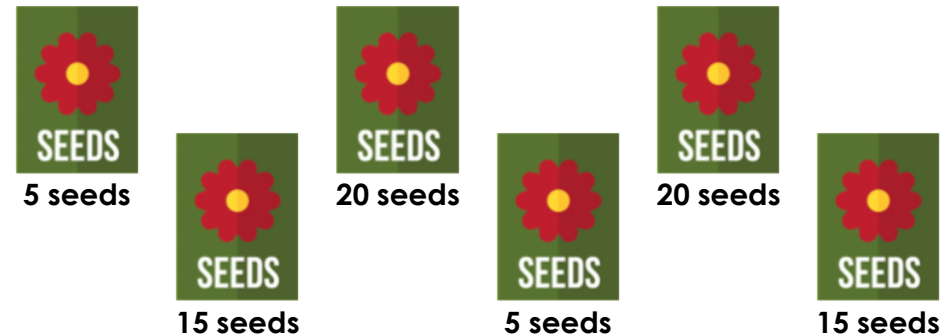
2. There are 100 tickets available. Luke sells fourteen. Molly sells twice as many as Luke and Jay sells five more than Luke. How many tickets are left?

tickets



3. Tommy is sorting his toys onto the shelves. He finds 17 more toys under his bed and lends six to his friend. How many toys does he have altogether?

toys



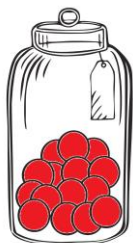
4. A farmer is planting seeds in pots. Each seed will need its own pot. There are 30 pots in the cupboard and 42 in the shed. How many more pots are needed?

pots

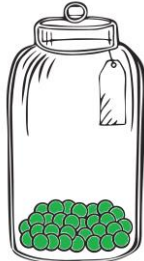
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One and Two Step Problems – Worksheet 1 – Brainbox

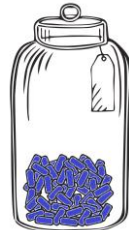
Reasoning – One and Two Step Problems



15 sweets



20 sweets



25 sweets



10 sweets

5. A sweet shop wants to make up bags of 10 sweets. The shop has already made seventeen bags. How many bags will there be altogether using all of the sweets?

bags



20 pens



20 pens



10 pens



10 pens



5 pens

6. A playgroup has lots of packets of pens. The teacher finds another thirteen in a box. Fifteen of the pens have dried up. How many of the pens work?

pens



10 rubbers



10 rubbers



5 rubbers



10 rubbers

7. Maggie collects rubbers. Today she bought another five rubbers. She wants to share the rubbers equally between five boxes. How many will be in each box?

rubbers



20 chocolates



15 chocolates



10 chocolates



10 chocolates



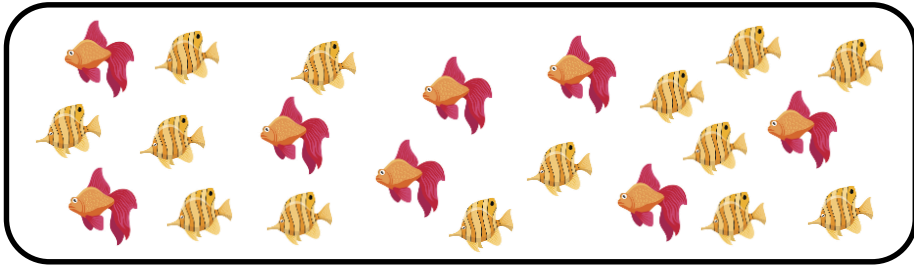
20 chocolates

8. Some friends are sharing chocolates. Kyle eats twenty five, Jason eats twelve and Mo eats some. There are fourteen left. How many does Mo eat?

chocolates

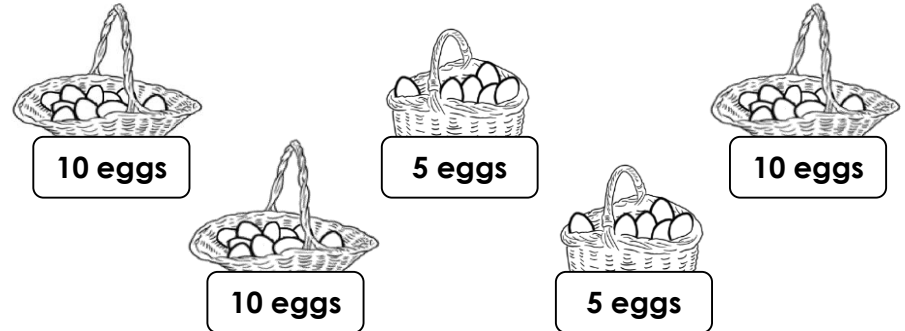
Reasoning – One and Two Step Problems

Rafael's fish



9. Rafael has some fish. His brother Jason has five times as many red fish but eight fewer yellow fish. How many fish does Jason have?

fish



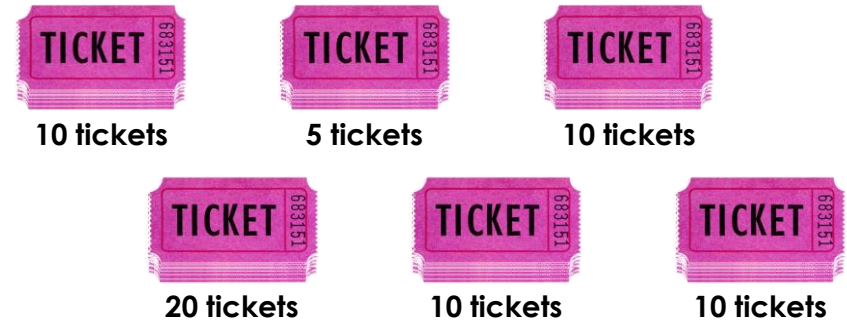
10. A farmer has collected eggs from their chicken coop. Ten eggs can be used to make three cakes. How many cakes can be made from the eggs?

cakes



11. Five friends have been trick or treating. They eat seventeen sweets and share the rest equally between them. How many sweets will they get each?

sweets



12. Jamie has collected these. He wants to buy a toy that costs thirteen tickets and another toy that costs sixty. How many more tickets does he need to collect?

tickets

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One and Two Step Problems – Worksheet 3 – Brainbox

Reasoning – One and Two Step Problems

Beginner

1. **4**
2. **7**
3. **10**
4. **2**
5. **8**
6. **2**
7. **7**
8. **8**
9. **5**
10. **8**
11. **6**
12. **8**

Easy

1. **3**
2. **20**
3. **21**
4. **12**
5. **13**
6. **6**
7. **9**
8. **25**
9. **26**
10. **3**
11. **20**
12. **11**

Tricky

1. **3**
2. **25**
3. **6**
4. **42**
5. **23**
6. **5**
7. **11**
8. **24**
9. **50 minutes**
10. **50**
11. **47**
12. **50**

Expert

1. **25**
2. **42**
3. **10**
4. **86**
5. **27**
6. **70**
7. **79**
8. **57**
9. **58**
10. **5**
11. **60 minutes (or 1 hour)**
12. **9**

Brainbox

1. **13**
2. **39**
3. **64**
4. **8**
5. **24**
6. **63**
7. **8**
8. **24**
9. **46**
10. **12**
11. **7**
12. **8**

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One and Two Step Problems **ANSWERS**