Division Word Problems

National Curriculum Objectives:

Mathematics Year 2: Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers. More resources with this objective.

Mathematics Year 3: Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables. More resources with this objective.

Mathematics Year 4: Recall multiplication and division facts for multiplication tables up to 12 X 12. More resources with this objective.

Mathematics Year 5: Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context. More resources with this objective.

Mathematics Year 6: Divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context. More resources with this objective.

Differentiation:

Beginner Dividing by 2, 5 and 10 using times tables knowledge. Aimed at Year 2 Secure/Year 3 Emerging.

Easy Dividing by 2, 5, 10, 3, 4 and 8 using times tables knowledge. Aimed at Year 2 Mastery/Year 3 Secure/Year 4 Emerging.

Tricky Dividing by all numbers up to 12 using times tables knowledge. Aimed at Year 3 Mastery/Year 4 Secure/Year 5 Emerging.

Expert Dividing 2-digit and 3-digit numbers by a 1-digit number with no remainders, using knowledge of factors and square numbers. Aimed at Year 4 Mastery/Year 5 Developing/Year 6 Emerging.

Brainbox Dividing 3-digit and 4-digit numbers by a 1-digit number with remainders. Aimed at Year 5 Secure/Year 6 Developing.

Genius Dividing 3-digit and 4-digit numbers by a 2-digit number with remainders. Aimed at Year 6 Secure.

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Division Word Problems – Teaching Information

Division Word Problems

1. Mrs Cross bakes 40 cupcakes and stores them in boxes of 10. How many boxes does she need?

2. Amy buys a bag of sweets. There are 18 sweets in the bag and she eats half of them. How many sweets does she eat?

3. Toby has 30 tomato seeds to plant. He plants 5 in each pot. How many pots of tomato plants will Toby have?

4. Mr Mann washes 22 socks. How many pairs of socks does he wash?

5. Sausages are sold in packets of 10. If a butcher makes 80 sausages, how many packets does he have?

6. Matthew shares 8 football stickers between his two best friends. How many stickers does each friend receive?

7. Thomas has 35 building blocks. He wants to builds towers with 5 bricks in each. How many towers can he build?

8. There are some motorbikes in a carpark. Jamal counts 10 wheels. How many motorbikes are there?

9. Alice grows tulips with 10 petals each. There are 100 petals in her garden. How many tulips are there?

10. Finley has 16 marbles. He gives half of his marble collection to his sister. How many does his sister receive?

Division Word Problems

1. Mrs Cross bakes 40 cupcakes and stores them in boxes of 10. How many boxes does she need? **4 boxes**

2. Amy buys a bag of sweets. There are 18 sweets in the bag and she eats half of them. How many sweets does she eat? **9 sweets**

3. Toby has 30 tomato seeds to plant. He plants 5 in each pot. How many pots of tomato plants will Toby have? **6 pots**

4. Mr Mann washes 22 socks. How many pairs of socks does he wash? **11 pairs**

5. Sausages are sold in packets of 10. If a butcher makes 80 sausages, how many packets does he have? **8 packets**

6. Matthew shares 8 football stickers between his two best friends. How many stickers does each friend receive? **4 stickers**

7. Thomas has 35 building blocks. He wants to builds towers with 5 bricks in each. How many towers can he build? **7 towers**

8. There are some motorbikes in a carpark. Jamal counts 10 wheels. How many motorbikes are there? **5 motorbikes**

9. Alice grows tulips with 10 petals each. There are 100 petals in her garden. How many tulips are there? **10 tulips**

10. Finley has 16 marbles. He gives half of his marble collection to his sister. How many does his sister receive? **8 marbles**

Division Word Problems

1. A nursery has 15 wheels in their play area. They all belong to tricycles. How many tricycles are there?

2. At a school sports day, children are put into teams of 8. If there are 48 children, how many teams are there?

3. 36 people need to travel to the cricket match. Each taxi can take 4 people. How many taxis will they need?

4. Joey's mum bought 25 toys for party bags. She shared them between 5 bags. How many toys were put in each bag?

5. Fran had a plate of 24 cherries. She ate half of them. How many cherries did she eat?

6. Anayah's hair grows 3cm a month. It has grown 27cm. How many months has it been growing for?

7. The perimeter of an octagon is 32cm. How long is each side?

8. Windows are installed with 10 panes of glass. There are 80 panes of glass ordered. How many windows will this make?

9. Lego men are sold in packs of 4. How many packs can be made from 36 Lego men?

10. DVDs cost £5 each. How many can you buy for £55?

Division Word Problems

1. A nursery has 15 wheels in their play area. They all belong to tricycles. How many tricycles are there? **5 tricycles**

2. At a school sports day, children are put into teams of 8. If there are 48 children, how many teams are there? **6 teams**

3. 36 people need to travel to the cricket match. Each taxi can take 4 people. How many taxis will they need? **9 taxis**

4. Joey's mum bought 25 toys for party bags. She shared them between 5 bags. How many toys were put in each bag? **5 toys**

5. Fran had a plate of 24 cherries. She ate half of them. How many cherries did she eat? **12 cherries**

6. Anayah's hair grows 3cm a month. It has grown 27cm. How many months has it been growing for? **9 months**

7. The perimeter of an octagon is 32cm. How long is each side? **4cm**

8. Windows are installed with 10 panes of glass. There are 80 panes of glass ordered. How many windows will this make? **8 windows**

9. Lego men are sold in packs of 4. How many packs can be made from 36 Lego men? **9 packs**

10. DVDs cost £5 each. How many can you buy for £55? **11 DVDs**

Division Word Problems

1. Sean plays 21 games of football in 3 months. How many games did he play per month?

2. Adam spends £63 on birthday presents. Each present costs £7. How many did he buy?

3. Over a week, a restaurant serves 56 burgers. They sell the same amount each day. How many do they sell a day?

4. Alice ties flowers into bunches of 6. If she has 48 flowers, how many bunches can she tie?

5. Bilal and Henry go minibeast hunting. They find 18 minibeasts and share them equally. How many do they each get?

6. There are 11 players on a football team. 88 children are playing in a tournament. How many teams can be made?

7. Cakes come in 12 slices. Jerry eats a quarter of them. How many slices of cake does he eat?

8. Miss Martin worked 35 hours over 5 days. How many hours did she work each day?

9. 12 friends go out for dinner and decide to split the bill evenly. If their dinner cost £84, how much do they each pay?

10. Angela buys 50 bottles of juice for her party. She packs them in boxes of 10. How many boxes will she need?

Division Word Problems

1. Sean plays 21 games of football in 3 months. How many games did he play per month? **7 a month**

2. Adam spends £63 on birthday presents. Each present costs £7. How many did he buy? **9 presents**

3. Over a week, a restaurant serves 56 burgers. They sell the same amount each day. How many do they sell a day? **8 a day**

4. Alice ties flowers into bunches of 6. If she has 48 flowers, how many bunches can she tie? **8 bunches**

5. Bilal and Henry go minibeast hunting. They find 18 minibeasts and share them equally. How many do they each get? **9 minibeasts**

6. There are 11 players on a football team. 88 children are playing in a tournament. How many teams can be made? **8 teams**

7. Cakes come in 12 slices. Jerry eats a quarter of them. How many slices of cake does he eat? **3 slices**

8. Miss Martin worked 35 hours over 5 days. How many hours did she work each day? **7 hours a day**

9. 12 friends go out for dinner and decide to split the bill evenly. If their dinner cost £84, how much do they each pay? **£7 each**

10. Angela buys 50 bottles of juice for her party. She packs them in boxes of 10. How many boxes will she need? **5 boxes**

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Division Word Problems – Tricky   ANSWERS

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Division Word Problems

1. Margo has 96p. Lollies cost 12p each. How many lollies can she buy? Can she buy enough for her 10 friends?

2. Danny has a length of liquorice 144cm long. How many liquorice sticks measuring 12cm can he make?

3. Reese goes to the fair with £1.50. How many tickets for the rides can he buy if they each cost 10p?

4. There are 112 chairs in a school. How many chairs will each of the 8 classrooms have?

5. Mrs Potter bakes 245 brownies for the school fair. She sells them in bags of 5. How many bags does she have to sell?

6. Alison buys 120 bulbs to plant in her three flowerbeds. If she plants the same amount in each flower bed, how many will there be?

7. There are 64 children going on a theatre trip to school. There are 8 minibuses to take them. How many children are on each minibus?

8. Tommy finds 69p down the back of his sofa and decides to share it between his 3 brothers. How much will each brother receive?

9. 7 adults spend £154 on tickets to a theme park. How much does each ticket cost?

10. Each firework Melissa buys lets off 9 stars. At the display, there are 81 stars. How many fireworks did Melissa let off? 9 fireworks

Division Word Problems

1. Margo has 96p. Lollies cost 12p each. How many lollies can she buy? Can she buy enough for her 10 friends? **8 lollies. No.**

2. Danny has a length of liquorice 144cm long. How many liquorice sticks measuring 12cm can he make? **12 sticks**

3. Reese goes to the fair with £1.50. How many tickets for the rides can he buy if they each cost 10p? **15 tickets**

4. There are 112 chairs in a school. How many chairs will each of the 8 classrooms have? **14 chairs**

5. Mrs Potter bakes 245 brownies for the school fair. She sells them in bags of 5. How many bags does she have to sell? **49 bags**

6. Alison buys 120 bulbs to plant in her three flowerbeds. If she plants the same amount in each flower bed, how many will there be? **40 bulbs**

7. There are 64 children going on a theatre trip to school. There are 8 minibuses to take them. How many children are on each minibus? **8 children**

8. Tommy finds 69p down the back of his sofa and decides to share it between his 3 brothers. How much will each brother receive? **13p each**

9. 7 adults spend £154 on tickets to a theme park. How much does each ticket cost? **£22**

10. Each firework Melissa buys lets off 9 stars. At the display, there are 81 stars. How many fireworks did Melissa let off? **9 fireworks**

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Division Word Problems

1. Meg walked 362 miles over a week for a sponsored walk. On average, how many miles a day did she walk?

2. A school wants to buy 1284 biscuits. They come in packets of 8. How many packs must they buy? How many biscuits are left over?

3. A farmer has 3104 carrots and needs to send bags of 6 to a supermarket. How many bags of carrots can he send? How many are left?

4. There are 341 people queuing to enter a theme park through 4 gates. To make the lines equal, how many people should queue at each gate? How many are left over?

5. Toby, Jake and Hugo need to cycle 4826 miles to raise money for their football club. How many miles should they each cycle to make it fair?

6. Alison spends £27.28 on 8 sets of tennis balls. How much did each set cost?

7. There are 8394 people at a concert. Seats are arranged in rows of 9. How many rows of seats are needed? How many people will be left without a seat?

8. A school council has £200 to spend on playground games. Each game they buy costs £7. How many games can they buy and how much money is left over?

9. 457 people sign up for a tennis tournament and are separated into games. It takes 2 people to play a game of tennis. How many games are organised? Can everyone play?

10. Ruth spends £45.60 taking 5 people to the cinema. How much does each ticket cost?

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Division Word Problems – Brainbox

Division Word Problems

1. Meg walked 362 miles over a week for a sponsored walk. On average, how many miles a day did she walk? **52 miles**

2. A school wants to buy 1284 biscuits. They come in packets of 8. How many packs must they buy? How many biscuits are left over? **161 packets. 4 left over**

3. A farmer has 3104 carrots and needs to send bags of 6 to a supermarket. How many bags of carrots can he send? How many are left? **517 bags. 2 left over.**

4. There are 341 people queuing to enter a theme park through 4 gates. To make the lines equal, how many people should queue at each gate? How many are left over? **85 per queue. 1 person left.**

5. Toby, Jake and Hugo need to cycle 4826 miles to raise money for their football club. How many miles should they each cycle to make it fair? **1608 miles each. 2 miles left to share.**

6. Alison spends £27.28 on 8 sets of tennis balls. How much did each set cost? **£3.41 each**

7. There are 8394 people at a concert. Seats are arranged in rows of 9. How many rows of seats are needed? How many people will be left without a seat? **932 rows. 6 people without a seat.**

8. A school council has £200 to spend on playground games. Each game they buy costs £7. How many games can they buy and how much money is left over? **28 games. £4 left.**

9. 457 people sign up for a tennis tournament and are separated into games. It takes 2 people to play a game of tennis. How many games are organised? Can everyone play? **228 games. No, 1 person left.**

10. Ruth spends £45.60 taking 5 people to the cinema. How much does each ticket cost? **£9.12**

Like this? Find more differentiated Word Problems here.

Division Word Problems

1. Over 28 days Max runs 1942 miles. On average, how many miles is this each day?

2. A school needs to buy 2000kg of potatoes for school lunches. If potatoes come in 15kg bags, how many bags must they buy?

3. If you can fit 48 people onto a bus, how many buses would you need to transport 3823 people?

4. There are 1752 pupils at a school. If each classroom has 30 pupils in, how many classrooms are needed?

5. A company has been given £412 to give its employees as a bonus. How much money would they each receive to the nearest pound if there are 12 employees?

6. On their road trip around America, the Knight family travels 892 miles. This took them 4 weeks. How many miles a week did they travel on average?

7. A factory produces 2953 DVDs and separates them into boxsets of 15. How many whole boxsets can they make?

8. There are 286 people coming to a party. Plastic cups come in packs of 25. How many packs will need to be bought for everyone to have a cup?

9. Laura has 7054 beads in her collection. She wants to use the beads to make 34 necklaces, one for everyone in her class. How many beads will be on each necklace? How many will she have left over?

10. In 5 years, a car travels 6394 miles. On average, how many miles is that a year?

Division Word Problems

1. Over 28 days Max runs 1942 miles. On average, how many miles is this each day?
69 miles a day (rounding down)

2. A school needs to buy 2000kg of potatoes for school lunches. If potatoes come in 15kg bags, how many bags must they buy? 134 bags (rounding up)

3. If you can fit 48 people onto a bus, how many buses would you need to transport 3823 people? 80 buses (rounding up)

4. There are 1752 pupils at a school. If each classroom has 30 pupils in, how many classrooms are needed? 59 classrooms (rounding up)

5. A company has been given £412 to give its employees as a bonus. How much money would they each receive to the nearest pound if there are 12 employees?
£34 (rounding down)

6. On their road trip around America, the Knight family travels 892 miles. This took them 4 weeks. How many miles a week did they travel on average? 223 miles

7. A factory produces 2953 DVDs and separates them into boxsets of 15. How many whole boxsets can they make? 196 boxsets (rounding down)

8. There are 286 people coming to a party. Plastic cups come in packs of 25. How many packs will need to be bought for everyone to have a cup? 12 packs (rounding up)

9. Laura has 7054 beads in her collection. She wants to use the beads to make 34 necklaces, one for everyone in her class. How many beads will be on each necklace? How many will she have left over? 207 beads 16 remaining

10. In 5 years, a car travels 6394 miles. On average, how many miles is that a year?
1279 miles (rounding up)

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Division Word Problems – Genius ANSWERS

Like this? Find more differentiated Word Problems here.