Understanding Division Problems

Name:

Use the completed division problem to answer each question.

1) A movie theater needed 48 popcorn buckets. If each package has 9 buckets in it, how many packages will they need to buy?

48 ÷ 9 = 5 r3

2) A vat of orange juice was 26 pints. If you wanted to pour the vat into 3 glasses with the same amount in each glass, how many pints would be in each glass?

26 ÷ 3 = 8 r2

3) A vase can hold 7 flowers. If a florist had 67 flowers she wanted to put equally into vases, how many flowers would be in the last vase that isn't full?

67 ÷ 7 = 9 r4

4) An airline has 59 pieces of luggage to put away. If each luggage compartment will hold 6 pieces of luggage, how many will be in the compartment that isn't full?

59 ÷ 6 = 9 r5

5) A pizza store had 11 pieces of pepperoni to put on their pizzas. If each pizza got 2 pieces, how many extra pieces of pepperoni would they have?

11 ÷ 2 = 5 r1

6) Debby had 11 songs on her mp3 player. If she wanted to put the songs equally into 2 different playlists, how many songs would she have left over?

11 ÷ 2 = 5 r1

7) A botanist picked 12 flowers. She wanted to put them into 5 bouquets with the same number of flowers in each. How many more should she pick so she doesn't have any extra?

12 ÷ 5 = 2 r2

8) An industrial machine can make 7 crayons a day. If each box of crayons has 3 crayons in it, how many full boxes does the machine make a day?

7 ÷ 3 = 2 r1

9) A restaurant needs to buy 20 new plates. If each box has 3 plates in it, how many boxes will they need to buy?

20 ÷ 3 = 6 r2

10) A librarian had to pack 28 books into boxes. If each box can hold 6 books, how many boxes did she need?

28 ÷ 6 = 4 r4

11) A school had 22 students sign up for the trivia teams. If they wanted to have 7 team, with the same number of students on each team, how many more students would need to sign up?

22 ÷ 7 = 3 r1

12) A movie store had 9 movies they were putting on 2 shelves. If the owner wanted to make sure each shelf had the same number of movies how many more movies would he need?

9 ÷ 2 = 4 r1

Answers

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1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								

Use the completed division problem to answer each question.

1) Each house a carpenter builds needs 7 sinks. If he bought 20 sinks, how many houses would that cover? 20 ÷ 7 = 2 r6

2) A new video game console needs 6 computer chips. If a machine can create 58 computer chips a day, how many video game consoles can be created in a day? 58 ÷ 6 = 9 r4

3) A builder needed to buy 9 boards for his latest project. If the boards he needs come in packs of 2, how many packages will he need to buy? 9 ÷ 2 = 4 r1

4) An industrial machine can make 13 crayons a day. If each box of crayons has 5 crayons in it, how many full boxes does the machine make a day? 13 ÷ 5 = 2 r3

5) At the carnival, 6 friends bought 27 tickets. If they wanted to split all the tickets so each friend got the same amount, how many more tickets would they need to buy? 27 ÷ 6 = 4 r3

6) Jerry had 60 baseball cards he's putting into a binder with 8 on each page. How many cards will he have on the page that isn't full? 60 ÷ 8 = 7 r4

7) A pizza store had 19 pieces of pepperoni to put on their pizzas. If each pizza got 3 pieces, how many extra pieces of pepperoni would they have? 19 ÷ 3 = 6 r1

8) A grocery store needed 7 cans of peas. If the peas come in boxes with 3 cans in each box, how many boxes would they need to order? 7 ÷ 3 = 2 r1

9) Carol wanted to drink exactly 6 bottles of water each day, so she bought 14 bottles when they were on sale. How many more bottles will she need to buy on the last day? 14 ÷ 6 = 2 r2

10) Victor is trying to earn 33 dollars for some new toys. If he charges 6 dollars to mow a lawn, how many lawns will he need to mow to earn the money? 33 ÷ 6 = 5 r3

11) Gwen had 62 songs on her mp3 player. If she wanted to put the songs equally into 9 different playlists, how many songs would she have left over? 62 ÷ 9 = 6 r8

12) An art museum had 22 pictures to split equally into 5 different exhibits. How many more pictures would they need to make sure each exhibit had the same amount? 22 ÷ 5 = 4 r2

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1-10	92	83	75	67	58	50	42	33	25	17
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Use the completed division problem to answer each question.

1) Mike has to sell 26 chocolate bars to win a trip. If each box contains 3 chocolate bars, how many boxes will he need to sell to win the trip? 26 ÷ 3 = 8 r2

2) A new video game console needs 7 computer chips. If a machine can create 62 computer chips a day, how many video game consoles can be created in a day? 62 ÷ 7 = 8 r6

3) A botanist picked 77 flowers. She wanted to put them into 9 bouquets with the same number of flowers in each. How many more should she pick so she doesn't have any extra? 77 ÷ 9 = 8 r5

4) Chloe had saved up 14 quarters and decided to spend them on sodas. If it costs 3 quarters for each soda from a soda machine, how many more quarters would she need to buy the final soda? 14 ÷ 3 = 4 r2

5) A grocery store needed 9 cans of peas. If the peas come in boxes with 2 cans in each box, how many boxes would they need to order? 9 ÷ 2 = 4 r1

6) Cody had 21 baseball cards he's putting into a binder with 4 on each page. How many cards will he have on the page that isn't full? 21 ÷ 4 = 5 r1

7) Paige had 30 photos to put into a photo album. If each page holds 9 photos, how many full pages will she have? 30 ÷ 9 = 3 r3

8) A box of computer paper has 9 sheets left in it. If each printer in a computer lab needed 2 sheets how many printers would the box fill up? 9 ÷ 2 = 4 r1

9) A builder needed to buy 38 boards for his latest project. If the boards he needs come in packs of 8, how many packages will he need to buy? 38 ÷ 8 = 4 r6

10) A box of cupcakes cost $5. If you had 22 dollars and bought as many boxes as you could, how much money would you have left? 22 ÷ 5 = 4 r2

11) Luke wanted to give each of his 8 friends an equal amount of candy. At the store he bought 36 pieces total to give to them. He many more pieces should he have bought so he didn't have any extra? 36 ÷ 8 = 4 r4

12) An airline has 13 pieces of luggage to put away. If each luggage compartment will hold 4 pieces of luggage, how many will be in the compartment that isn't full? 13 ÷ 4 = 3 r1

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Use the completed division problem to answer each question.

1) Faye had saved up 31 quarters and decided to spend them on sodas. If it costs 6 quarters for each soda from a soda machine, how many more quarters would she need to buy the final soda? 31 ÷ 6 = 5 r1

2) Sarah had 33 songs on her mp3 player. If she wanted to put the songs equally into 7 different playlists, how many songs would she have left over? 33 ÷ 7 = 4 r5

3) The roller coaster at the state fair costs 8 tickets per ride. If you had 43 tickets, how many tickets would you have left if you rode it as many times as you could? 43 ÷ 8 = 5 r3

4) Each house a carpenter builds needs 3 sinks. If he bought 19 sinks, how many houses would that cover? 19 ÷ 3 = 6 r1

5) A new video game console needs 9 computer chips. If a machine can create 66 computer chips a day, how many video game consoles can be created in a day? 66 ÷ 9 = 7 r3

6) Will is trying to earn 42 dollars for some new toys. If he charges 5 dollars to mow a lawn, how many lawns will he need to mow to earn the money? 42 ÷ 5 = 8 r2

7) Amy wanted to drink exactly 5 bottles of water each day, so she bought 31 bottles when they were on sale. How many more bottles will she need to buy on the last day? 31 ÷ 5 = 6 r1

8) A machine in a candy company creates 47 pieces of candy a minute. If a small box of candy has 5 pieces in it how many full boxes does the machine make in a minute? 47 ÷ 5 = 9 r2

9) A store owner had 6 employees and bought 56 uniforms for them. If he wanted to give each employee the same number of uniforms, how many more should he buy so he doesn't have any extra? 56 ÷ 6 = 9 r2

10) A movie theater needed 42 popcorn buckets. If each package has 9 buckets in it, how many packages will they need to buy? 42 ÷ 9 = 4 r6

11) A box of cupcakes cost $5. If you had 42 dollars and bought as many boxes as you could, how much money would you have left? 42 ÷ 5 = 8 r2

12) A grocery store needed 33 cans of peas. If the peas come in boxes with 4 cans in each box, how many boxes would they need to order? 33 ÷ 4 = 8 r1

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Use the completed division problem to answer each question.

1) A food company has 14 kilograms of food to put into boxes. If each box gets exactly 3 kilograms, how many full boxes will they have? 14 ÷ 3 = 4 r2

2) A container can hold 5 orange slices. If a company had 12 orange slices to put into containers, how many more slices would they need to fill up the last container? 12 ÷ 5 = 2 r2

3) A coat factory had 16 coats. If they wanted to put them into 5 boxes, with the same number of coats in each box, how many extra coats would they have left over? 16 ÷ 5 = 3 r1

4) A box of cupcakes cost $8. If you had 35 dollars and bought as many boxes as you could, how much money would you have left? 35 ÷ 8 = 4 r3

5) John wanted to give each of his 4 friends an equal amount of candy. At the store he bought 26 pieces total to give to them. He many more pieces should he have bought so he didn't have any extra? 26 ÷ 4 = 6 r2

6) Will had 49 baseball cards he's putting into a binder with 9 on each page. How many cards will he have on the page that isn't full? 49 ÷ 9 = 5 r4

7) A clown needed 7 balloons for a party he was going to, but the balloons only came in packs of 2. How many packs of balloons would he need to buy? 7 ÷ 2 = 3 r1

8) Chloe wanted to drink exactly 4 bottles of water each day, so she bought 38 bottles when they were on sale. How many more bottles will she need to buy on the last day? 38 ÷ 4 = 9 r2

9) There are 7 students going to a trivia competition. If each school van can hold 2 students, how many vans will they need? 7 ÷ 2 = 3 r1

10) It takes 9 grams of plastic to make a ruler. If a company had 40 grams of plastic, how many entire rulers could they make? 40 ÷ 9 = 4 r4

11) A school had 14 students sign up for the trivia teams. If they wanted to have 5 team, with the same number of students on each team, how many more students would need to sign up? 14 ÷ 5 = 2 r4

12) A truck can hold 7 boxes. If you needed to move 44 boxes across town, how many trips would you need to make? 44 ÷ 7 = 6 r2

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Use the completed division problem to answer each question.

1) A coat factory had 33 coats. If they wanted to put them into 8 boxes, with the same number of coats in each box, how many extra coats would they have left over? 33 ÷ 8 = 4 r1

2) A recycling company had 16 pounds of material to sort. To make it easier they split them into boxes with each full box having 5 pounds, how many full boxes did they have? 16 ÷ 5 = 3 r1

3) Luke had 9 pieces of candy. If he wants to split the candy into 2 bags with the same amount of candy in each bag, how many more pieces would he need to make sure each bag had the same amount? 9 ÷ 2 = 4 r1

4) Rachel had 37 photos to put into a photo album. If each page holds 9 photos, how many full pages will she have? 37 ÷ 9 = 4 r1

5) A machine in a candy company creates 48 pieces of candy a minute. If a small box of candy has 7 pieces in it how many full boxes does the machine make in a minute? 48 ÷ 7 = 6 r6

6) A grocery store needed 22 cans of peas. If the peas come in boxes with 3 cans in each box, how many boxes would they need to order? 22 ÷ 3 = 7 r1

7) A builder needed to buy 20 boards for his latest project. If the boards he needs come in packs of 6, how many packages will he need to buy? 20 ÷ 6 = 3 r2

8) Tom has to sell 8 chocolate bars to win a trip. If each box contains 3 chocolate bars, how many boxes will he need to sell to win the trip? 8 ÷ 3 = 2 r2

9) A restaurant needs to buy 18 new plates. If each box has 5 plates in it, how many boxes will they need to buy? 18 ÷ 5 = 3 r3

10) An art museum had 15 pictures to split equally into 2 different exhibits. How many more pictures would they need to make sure each exhibit had the same amount? 15 ÷ 2 = 7 r1

11) Maria had 32 songs on her mp3 player. If she wanted to put the songs equally into 7 different playlists, how many songs would she have left over? 32 ÷ 7 = 4 r4

12) A school had 49 students sign up for the trivia teams. If they wanted to have 8 team, with the same number of students on each team, how many more students would need to sign up? 49 ÷ 8 = 6 r1

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Use the completed division problem to answer each question.

1) Paul had 33 pieces of candy. If he wants to split the candy into 4 bags with the same amount of candy in each bag, how many more pieces would he need to make sure each bag had the same amount? 33 ÷ 4 = 8 r1

2) Sam is trying to earn 47 dollars for some new toys. If he charges 7 dollars to mow a lawn, how many lawns will he need to mow to earn the money? 47 ÷ 7 = 6 r5

3) Olivia had saved up 78 quarters and decided to spend them on sodas. If it costs 9 quarters for each soda from a soda machine, how many more quarters would she need to buy the final soda? 78 ÷ 9 = 8 r6

4) An industrial machine can make 35 crayons a day. If each box of crayons has 9 crayons in it, how many full boxes does the machine make a day? 35 ÷ 9 = 3 r8

5) A cafeteria was putting milk cartons into stacks. They had 55 cartons and were putting them into stacks with 9 cartons in each sack. How many full stacks could they make? 55 ÷ 9 = 6 r1

6) A movie theater needed 50 popcorn buckets. If each package has 6 buckets in it, how many packages will they need to buy? 50 ÷ 6 = 8 r2

7) A box can hold 6 brownies. If a baker made 43 brownies, how many full boxes of brownies did he make? 43 ÷ 6 = 7 r1

8) Each house a carpenter builds needs 8 sinks. If he bought 78 sinks, how many houses would that cover? 78 ÷ 8 = 9 r6

9) A coat factory had 9 coats. If they wanted to put them into 2 boxes, with the same number of coats in each box, how many extra coats would they have left over? 9 ÷ 2 = 4 r1

10) A school had 17 students sign up for the trivia teams. If they wanted to have 7 team, with the same number of students on each team, how many more students would need to sign up? 17 ÷ 7 = 2 r3

11) A box of cupcakes cost $9. If you had 48 dollars and bought as many boxes as you could, how much money would you have left? 48 ÷ 9 = 5 r3

12) A builder needed to buy 44 boards for his latest project. If the boards he needs come in packs of 8, how many packages will he need to buy? 44 ÷ 8 = 5 r4

Answers

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Use the completed division problem to answer each question.

1) Janet had 32 pennies. She wanted to place the pennies into 7 stacks, with the same amount in each stack. How many more pennies would she need so all the stacks would be equal? 32 ÷ 7 = 4 r4

2) A container can hold 8 orange slices. If a company had 17 orange slices to put into containers, how many more slices would they need to fill up the last container? 17 ÷ 8 = 2 r1

3) Zoe is making bead necklaces. She wants to use 35 beads to make 8 necklaces. If she wants each necklace to have the same number of beads, how many beads will she have left over? 35 ÷ 8 = 4 r3

4) There are 39 students going to a trivia competition. If each school van can hold 5 students, how many vans will they need? 39 ÷ 5 = 7 r4

5) Edward's dad bought 31 meters of string. If he wanted to cut the string into pieces with each piece being 8 meters long, how many full sized pieces could he make? 31 ÷ 8 = 3 r7

6) A food company has 41 kilograms of food to put into boxes. If each box gets exactly 5 kilograms, how many full boxes will they have? 41 ÷ 5 = 8 r1

7) A baker had 7 boxes for donuts. He ended up making 48 donuts and splitting them evenly between the boxes. How many extra donuts did he end up with? 48 ÷ 7 = 6 r6

8) A clown needed 18 balloons for a party he was going to, but the balloons only came in packs of 5. How many packs of balloons would he need to buy? 18 ÷ 5 = 3 r3

9) A school had 17 students sign up for the trivia teams. If they wanted to have 5 team, with the same number of students on each team, how many more students would need to sign up? 17 ÷ 5 = 3 r2

10) A restaurant needs to buy 22 new plates. If each box has 8 plates in it, how many boxes will they need to buy? 22 ÷ 8 = 2 r6

11) An airline has 15 pieces of luggage to put away. If each luggage compartment will hold 2 pieces of luggage, how many will be in the compartment that isn't full? 15 ÷ 2 = 7 r1

12) A post office has 75 pieces of junk mail they want to split evenly between 8 mail trucks. How many extra pieces of junk mail will they have if they give each truck the same amount? 75 ÷ 8 = 9 r3

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1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								

Use the completed division problem to answer each question.

1) A machine in a candy company creates 53 pieces of candy a minute. If a small box of candy has 6 pieces in it how many full boxes does the machine make in a minute? 53 ÷ 6 = 8 r5

2) Billy has to sell 34 chocolate bars to win a trip. If each box contains 4 chocolate bars, how many boxes will he need to sell to win the trip? 34 ÷ 4 = 8 r2

3) An airline has 41 pieces of luggage to put away. If each luggage compartment will hold 5 pieces of luggage, how many will be in the compartment that isn't full? 41 ÷ 5 = 8 r1

4) A new video game console needs 9 computer chips. If a machine can create 24 computer chips a day, how many video game consoles can be created in a day? 24 ÷ 9 = 2 r6

5) A restaurant needs to buy 39 new plates. If each box has 4 plates in it, how many boxes will they need to buy? 39 ÷ 4 = 9 r3

6) A coat factory had 29 coats. If they wanted to put them into 3 boxes, with the same number of coats in each box, how many extra coats would they have left over? 29 ÷ 3 = 9 r2

7) A cafeteria was putting milk cartons into stacks. They had 34 cartons and were putting them into stacks with 9 cartons in each sack. How many full stacks could they make? 34 ÷ 9 = 3 r7

8) Bianca wanted to drink exactly 5 bottles of water each day, so she bought 47 bottles when they were on sale. How many more bottles will she need to buy on the last day? 47 ÷ 5 = 9 r2

9) There are 19 people attending a luncheon. If a table can hold 2 people, how many tables do they need? 19 ÷ 2 = 9 r1

10) Paul had 7 baseball cards he's putting into a binder with 3 on each page. How many cards will he have on the page that isn't full? 7 ÷ 3 = 2 r1

11) A grocery store needed 39 cans of peas. If the peas come in boxes with 4 cans in each box, how many boxes would they need to order? 39 ÷ 4 = 9 r3

12) A movie store had 10 movies they were putting on 4 shelves. If the owner wanted to make sure each shelf had the same number of movies how many more movies would he need? 10 ÷ 4 = 2 r2

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1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								

Use the completed division problem to answer each question.

1) A post office has 19 pieces of junk mail they want to split evenly between 5 mail trucks. How many extra pieces of junk mail will they have if they give each truck the same amount? 19 ÷ 5 = 3 r4

2) An industrial machine can make 29 crayons a day. If each box of crayons has 8 crayons in it, how many full boxes does the machine make a day? 29 ÷ 8 = 3 r5

3) George bought 17 pieces of candy to give to 5 of his friends. If he wants to give each friend the same amount, how many pieces would he have left over? 17 ÷ 5 = 3 r2

4) There are 50 students going to a trivia competition. If each school van can hold 8 students, how many vans will they need? 50 ÷ 8 = 6 r2

5) Sam had 13 pieces of candy. If he wants to split the candy into 3 bags with the same amount of candy in each bag, how many more pieces would he need to make sure each bag had the same amount? 13 ÷ 3 = 4 r1

6) A school had 14 students sign up for the trivia teams. If they wanted to have 4 team, with the same number of students on each team, how many more students would need to sign up? 14 ÷ 4 = 3 r2

7) Roger has to sell 40 chocolate bars to win a trip. If each box contains 7 chocolate bars, how many boxes will he need to sell to win the trip? 40 ÷ 7 = 5 r5

8) Faye had saved up 7 quarters and decided to spend them on sodas. If it costs 3 quarters for each soda from a soda machine, how many more quarters would she need to buy the final soda? 7 ÷ 3 = 2 r1

9) Each house a carpenter builds needs 2 sinks. If he bought 9 sinks, how many houses would that cover? 9 ÷ 2 = 4 r1

10) Robin is making bead necklaces. She wants to use 31 beads to make 4 necklaces. If she wants each necklace to have the same number of beads, how many beads will she have left over? 31 ÷ 4 = 7 r3

11) A clown needed 39 balloons for a party he was going to, but the balloons only came in packs of 7. How many packs of balloons would he need to buy? 39 ÷ 7 = 5 r4

12) A movie theater needed 76 popcorn buckets. If each package has 8 buckets in it, how many packages will they need to buy? 76 ÷ 8 = 9 r4

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