Maths - Primary

Stonewall's home learning packs can be used by parents or carers looking to support their child's learning or by education staff looking to send work home for their students. There is a primary, secondary and SEND version of each pack, with a list of suggested activities and supporting materials for you to pick and choose from. This maths pack features a range of worksheets and questions for your child to work on.

This pack is for Key Stage 2 children.

Who are Stonewall?

This resource is produced by Stonewall, a UK-based charity that stands for the freedom, equity and potential of all lesbian, gay, bi, trans, queer, questioning and ace (LGBTQ+) people. At Stonewall, we imagine a world where LGBTQ+ people everywhere can live our lives to the full. Founded in London in 1989, we now work in each nation of the UK and have established partnerships across the globe. Over the last three decades, we have created transformative change in the lives of LGBTQ+ people in the UK, helping win equal rights around marriage, having children and inclusive education.

Our campaigns drive positive change for our communities, and our sustained change and empowerment programmes ensure that LGBTQ+ people can thrive throughout our lives. We make sure that the world hears and learns from our communities, and our work is grounded in evidence and expertise.

Stonewall is proud to provide information, support and guidance on LGBTQ+ inclusion; working towards a world where we're all free to be. This does not constitute legal advice, and is not intended to be a substitute for legal counsel on any subject matter. To find out more about our work, visit us at www.stonewall.org.uk.

Join our Education & Youth programmes

Our experienced team are proud to have supported many primary and secondary schools, colleges, Local Authorities and Multi Academy Trusts to challenge bullying and celebrate diversity.
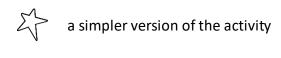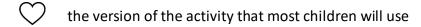
We offer:

• Online training for education staff

• An awards scheme

• Membership programmes
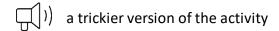
• Consultancy

• A wide range of resources

To find out how your school, college or setting can benefit from working with Stonewall, visit www.stonewall.org.uk/schools-colleges.

Choose the right activity for your child:

a simpler version of the activity

the version of the activity that most children will use

a trickier version of the activity

Remember that counters, coins or even pieces of pasta can help your child with their maths. They might also want to make or print out a number line or a 100 square. Sometimes children find word problems tricky, it might help your child to talk each question through with you or draw pictures to help their understanding.

If your child finds reading difficult, it can be helpful to record yourself reading out each question on your phone or device so that they can skip through and listen to each recording as they move from one question to the next.

Resources for Year 3 children

Word problems

1. Jensen had 16 crayons but 7 broke. How many crayons does he have left?

2. Mathilda's mums bought 39 strawberries. They ate 20 for lunch. How many strawberries are left?

3. Dionne has £35 saved up. They get £10 for their birthday. How much money have they got now?

4. Hamza has 37 Lego bricks and his brother has 50. How many bricks do they have altogether?

5. Remy has 21 marbles and shares them equally between himself and both his dads. How many marbles does each person get?

6. Fran's dad bakes 15 biscuits and shares them fairly with her and her brother. How many biscuits will Fran get? (remember that her dad will want some biscuits too!)

7. Everyone in Rafael's family has 3 hats. There are 4 people in the family. How many hats do they have altogether?

8. Rojin deals 5 cards to each member of his family. There are 5 people in the family. How many cards has Rojin dealt?

Word problems

1. Jensen had 36 crayons but 17 broke. How many crayons does he have left?

2. Mathilda's mums bought 42 strawberries. They ate 19 for lunch. How many strawberries are left?

3. Dionne has £35 saved up. They get £16 for their birthday. How much money have they got now?

4. Hamza has 37 Lego bricks and his brother has 54. How many bricks do they have altogether?

5. Remy has 32 marbles and shares them equally between himself, his sister and their two dads. How many marbles does each person get?

6. Fran's dad bakes 48 biscuits and shares them fairly with her and her two brothers. How many biscuits will Fran get? (remember that her dad will want some biscuits too!)

7. Everyone in Rafael's family has 4 hats. There are 6 people in the family. How many hats do they have altogether?

8. Rojin deals 6 cards to each member of his family. There are 4 people in the family. How many cards has Rojin dealt?

Word problems

1. Jensen had 36 crayons but a quarter of them broke. How many crayons does he have left?

2. Mathilda's mums bought 432 strawberries. They ate 193 for lunch and 120 for dinner. How many strawberries are left?

3. Dionne has £390 saved up. They get £16 from their dad and £12 from their mum. How much money have they got now?

4. Hamza has 37 Lego bricks and his brother has 54. Their cousin has 34. How many bricks do all three of them have altogether?

5. Remy has 35 marbles and shares them between himself, his sister and their two dads. How many marbles does each person get? Does everyone get the same number of marbles?

6. Fran's dad bakes 48 biscuits. He saves half for another day and shares the rest fairly with her and her two brothers. How many biscuits will Fran get? (remember that her dad will want some biscuits too!)

7. Everyone in Rafael's family has 4 hats. There are 6 people in the family. Half of the hats are winter hats. How many winter hats do Rafael's family have?

8. Rojin deals 7 cards to each member of his family. There are 5 people in the family. Rojin has dealt half of the cards. How many are left in the pack?

The wedding

Emma and Samina are getting married and they're going to have 50 guests. There can have different sizes of tables and they are trying to work out what is best.

Large tables have space for 10 people.

Medium tables have space for 5 people.

Small tables have space for 2 people.

Which possible combinations of tables could they have? Find as many possible combinations as you can.

For example, 3 large tables and 4 medium tables.

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The wedding

Emma and Samina are getting married and they're going to have 48 guests. There can have different sizes of tables and they are trying to work out what is best.

Large tables have space for 8 people.

Medium tables have space for 6 people.

Small tables have space for 2 people.

Which possible combinations of tables could they have? Find as many possible combinations as you can.

For example, 3 large tables and 4 medium tables.

The wedding

Emma and Samina are getting married and they're going to have 48 guests. There can have different sizes of tables and they are trying to work out what is best.

Large tables have space for 8 people.

Medium tables have space for 6 people.

Small tables have space for 4 people.

Which possible combinations of tables could they have? Find as many possible combinations as you can.

For example, 3 large tables and 4 medium tables.

Resources for
Year 4 children

Word problems

1. Jensen had 36 crayons but 17 broke. How many crayons does he have left?

2. Mathilda's mums bought 42 strawberries. They ate 19 for lunch. How many strawberries are left?

3. Dionne has £35 saved up. They get £16 for their birthday. How much money have they got now?

4. Hamza has 37 Lego bricks and his brother has 54. How many bricks do they have altogether?

5. Remy has 32 marbles and shares them equally between himself, his sister and their two dads. How many marbles does each person get?

6. Fran's dad bakes 48 biscuits and shares them fairly with her and her two brothers. How many biscuits will Fran get? (remember that her dad will want some biscuits too!)

7. Everyone in Rafael's family has 4 hats. There are 6 people in the family. How many hats do they have altogether?

8. Rojin deals 6 cards to each member of his family. There are 4 people in the family. How many cards has Rojin dealt?

Word problems

1. Jensen had 36 crayons but a quarter of them broke. How many crayons does he have left?

2. Mathilda's mums bought 42 strawberries. They ate 19 for lunch and 12 for dinner. How many strawberries are left?

3. Dionne has £35 saved up. They get £16 from their dad and £12 from their mum. How much money have they got now?

4. Hamza has 37 Lego bricks and his brother has 54. Their cousin has 34. How many bricks do all three of them have altogether?

5. Remy has 35 marbles and shares them between himself, his sister and their two dads. How many marbles does each person get? Does everyone get the same number of marbles?

6. Fran's dad bakes 48 biscuits. He saves half for another day and shares the rest fairly with her and her two brothers. How many biscuits will Fran get? (remember that her dad will want some biscuits too!)

7. Everyone in Rafael's family has 4 hats. There are 6 people in the family. Half of the hats are winter hats. How many winter hats do Rafael's family have?

8. Rojin deals 7 cards to each member of his family. There are 5 people in the family. Rojin has dealt half of the cards. How many are left in the pack?

Word problems

1. Jensen had 36 crayons but a third of them broke. How many crayons does he have left?

2. Mathilda's mums bought 42 strawberries. They ate half for lunch and a 12 for dinner. How many strawberries are left?

3. Dionne has £35.00 saved up. They get £16.50 from their dad and £12.25 from their mum. How much money have they got now?

4. Hamza has 37 Lego bricks and his brother has 54. Their cousin has twice as many. How many bricks does their cousin have?

5. Remy has 124 marbles and shares them between himself, his sister and their two dads. How many marbles does each person get?

6. Fran's dad bakes 50 biscuits. He saves a half for another day and shares the rest her and her two brothers. How many biscuits will Fran get? Will everyone get the same number of biscuits? (remember that her dad will want some biscuits too!)

7. Rafael's reads 25 pages of his book a day. How many pages will he have read in 4 weeks?

8. Rojin deals 12 cards to each member of his family. There are 6 people in the family. Rojin has dealt a third of the cards. How many are left in the pack?

The flowers

Justin and Darren are deciding on the flower arrangements for their wedding. Each arrangement is going to have 30 flowers in.

They want to have yellow, white and orange flowers. How many possible combinations of flowers could they have?

For example, one combination would be 10 yellow flowers, 10 white flowers and 6 orange flowers.

The flowers

Justin and Darren are deciding on the flower arrangements for their wedding. Each arrangement is going to have 26 flowers in.

They want to have yellow, white and orange flowers. How many possible combinations of flowers could they have?

For example, one combination would be 10 yellow flowers, 10 white flowers and 6 orange flowers.

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The flowers

Justin and Darren are deciding on the flower arrangements for their wedding. Each arrangement is going to have 26 flowers in.

They want to have yellow, white and orange flowers. How many possible combinations of flowers could they have?

For example, one combination would be 10 yellow flowers, 10 white flowers and 6 orange flowers.

Resources for
Year 5 children

Word problems

1. Ruth has 554 Lego blocks. She gets a new set which has 326 blocks in it. How many blocks of Lego does Ruth have now?

2. Sam Smith played to a crowd of 2,362 in Manchester. 5,249 people saw them play in London. How many people saw them play altogether?

3. Nikola and his mums bought a big bag of jelly beans. Of the 120 sweets, a third were red. How many red jelly beans were there?

4. Nafeesa is baking cakes with her 4 cousins. They each add 2 cups of sugar and 8 cups of flour to the bowl. How many cups of ingredients have they added so far?

5. Ava and her dads start watching a film at 9:45am. The film finishes at 11:30am. How long was the film?

6. Chanice has £25.45 saved up. She spends £8.25 on some music. How much money does Chanice have left?

7. Dylan's grandma bought 5 cans of soup for £1.90 each. How much did she spend in total?

8. It took Rhianna an hour to read 30 pages of her book. If she reads for an hour every day in April, how many pages will she have read?

Word problems

1. Ruth has 6054 Lego blocks. She gets a new set which has 426 blocks in it. How many blocks of Lego does Ruth have now?

2. Sam Smith played to a crowd of 20,362 in Manchester. 54,249 people saw them play in London. How many people saw them play altogether?

3. Nikola and his mums bought a big bag of jelly beans. Of the 540 sweets, a third were red. How many red jelly beans were there?

4. Nafeesa is baking cakes with her 4 cousins. They each add 2 cups of sugar and 8 cups of flour to the bowl. How many cups of ingredients have they added so far?

5. Ava and her dads start watching a film at 9:40am. The film finishes at 11:20am. How long was the film?

6. Chanice has £25.38 saved up. She spends £8.25 on some music. How much money does Chanice have left?

7. Dylan's grandma bought 5 cans of soup for £1.96 each. How much did she spend in total?

8. It took Rhianna an hour to read 38 pages of her book. If she reads for an hour every day in April, how many pages will she have read?

Word problems

1. Ruth has 6054 Lego blocks. She gets a new set which has 426 blocks in it. How many blocks of Lego does Ruth have now? She builds 6 towers. How many blocks will be in each tower?

2. Sam Smith played to a crowd of 20,362 in Manchester. Five times as many people saw them play in London. How many people saw them play altogether?

3. Nikola and his mums bought a big bag of jelly beans. Of the 540 sweets, 10% were red. How many red jelly beans were there?

4. Nafeesa is baking cakes with her 6 cousins. They each add 2 cups of sugar and 8 cups of flour to the bowl. How many cups of ingredients have they added so far?

5. Ava and her dads start watching a film at 10:40am. The film finishes at 12:20pm. How long was the film?

6. Chanice has £25.38 saved up. She spends half of that money on a film and a further £5.25 on some music. How much money does Chanice have left?

7. Dylan's grandma bought 5 cans of soup for £1.96 each and 8 cans of beans for £1.33 each. How much did she spend in total?

8. It took Rhianna an hour to read 38 pages of her book. If she reads for 2 hours a day every day for a year, how many pages will she have read?

The marquee

Miguel and Zak are hiring a marquee for their wedding and are planning to decorate it with fairy lights going all the way around the edges. They know that the marquee has an area of 50m^2 but they don't know its perimeter.

1. What is the minimum possible length of fairy lights needed to decorate the marquee?
2. What is the maximum length of fairy lights needed to decorate the marquee? (Assuming that all of the corners of the marquee are right angles)

The marquee

Miguel and Zak are hiring a marquee for their wedding and are planning to decorate it with fairy lights going all the way around the edges. They know that the marquee has an area of 72m^2 but they don't know its perimeter.

1. What is the minimum possible length of fairy lights needed to decorate the marquee?
2. What is the maximum length of fairy lights needed to decorate the marquee? (Assuming that all of the corners of the marquee are right angles)

The marquee

Miguel and Zak are hiring a marquee for their wedding and are planning to decorate it with fairy lights going all the way around the edges. They know that the marquee has an area of 72m^2 but they don't know its perimeter.

1. What is the minimum possible length of fairy lights needed to decorate the marquee?
2. What is the maximum length of fairy lights needed to decorate the marquee? (Assuming that all of the corners of the marquee are right angles)

The fairy lights cost 99p per metre.

1. What is the minimum they can expect to spend on fairy lights?
2. What is the maximum they can expect to spend on fairy lights?

Resources for Year 6 children

Word problems

1. Ruth has 6054 Lego blocks. She gets a new set which has 426 blocks in it. How many blocks of Lego does Ruth have now? She wants to build several towers of equal height. How many towers could she build? How tall would they be?

2. Sam Smith played to a crowd of 20,362 in Manchester. Five times as many people saw them play in London. 10% went to see them in both Manchester and London. How many different people saw them play altogether?

3. Nikola and his mums bought a big bag of jelly beans. Of the 540 sweets, 20% were red. How many red jelly beans were there?

4. Nafeesa is baking cakes with her 6 cousins. They each add 2 cups of sugar and 8 cups of flour to the bowl. How many cups of ingredients have they added so far? If one cup of ingredients weighs 120g, how much does their whole mixture weigh?

5. Ava and her dads start watching a film at 10:40am. They stop part way through and spend 15 minutes making a snack. The family finish watching the film at 12:20pm. How long was the film?

6. Chanice has £25.38 saved up. She spends a third of that money on a film and a further £5.25 on some music. How much money does Chanice have left?

7. Dylan's grandma bought 5 cans of soup for £1.96 each and 8 cans of beans for £1.33 each. How much change did she get from £50?

8. It took Rhianna an hour to read 315 pages of her book. How many pages does she read in a minute? Round your answer to the nearest whole page.

Word problems

1. Ruth builds a Lego tower that is 47 blocks high and 3 blocks wide. She builds more identical towers until she has 8 of them. How many blocks has Ruth used?

2. Ava's grandpa buys 6 bunches of flowers. Each bunch costs £2.25. How much did he spend on flowers altogether?

3. Nikola and his mums bought a big bag of jelly beans. Of the 540 sweets, 5% were red. How many red jelly beans were there?

4. Nafeesa is pouring drinks for her cousins. She pours four 250ml glasses and one 500ml glasses. The new carton of orange juice is now empty, but how much did it hold? Answer in litres.

5. Ava and her dads start watching a film at 12:40. They stop part way through and spend 15 minutes making a snack. The family finish watching the film at 15:20. They watch a 93 minute film later that day. How long did they spend watching films?

6. Chanice's bedroom measures 4.2m by 3.8m. What is the area of her bedroom? What is the perimeter?

7. Dylan's grandma bought 5 cans of soup for £1.96 each and 8 cans of beans for £1.33 each. How much change did she get from £50?

8. Jackson's mum is a keen cyclist and she cycles 118km a week. She cycles that far every week. How far would she cycle in a year? How far would she cycle in 6 years?

Word problems

1. Ruth builds a Lego tower that is 47.3 cm high, with a depth of 3 cm and width of 5cm. What is the volume of the tower?

2. Ava's grandpa buys 6 bunches of flowers. Each bunch costs £2.25. How much change did he get from £20?

3. Nikola and his mums bought a big bag of jelly beans. Of the 540 sweets, 5% were red. How many red jelly beans were there?

4. Nafeesa is pouring drinks of orange juice and apple juice for her cousins. She pours four 250ml glasses and one 500ml glasses. She poured equal amounts of orange juice and apple juice. If two glasses contained orange juice and three contained apple juice, what type of juice was in the 500ml glass?

5. Ava and her dads start watching a film at 12:40. They stop part way through and spend 15 minutes making a snack. The family finish watching the film at 15:20. They loved the film and watched it 6 more times over the course of a month. How long did they spend the same film?

6. Chanice's bedroom measures 4.2m by 3.8m. The ceiling is 2.7m from the floor. What is the area of her bedroom? What is the volume?

7. Dylan's grandma bought 5 cans of soup for £1.96 each and 8 cans of beans for £1.33 each. She buys the same for 4 weeks in a row. How much money did she spend on canned food?

8. Jackson's mum is a keen cyclist and she cycles 118.3km a week. She cycles that far every week. How far would she cycle in a year? How far would she cycle in 6 years?

The dancefloor

India and Gemma are planning their wedding. They love dancing, so want there to be a nice dancefloor.

They plan to hire a dancefloor with an area of 64 m^2.

It costs £2.32 per 1m^2 of flooring. Each floor tile is 1m by 1m.

The edging for the floor costs 75p per metre.

1. What is the minimum possible perimeter of the dancefloor?
2. What is the maximum possible perimeter of the dancefloor?
3. What is the lowest possible cost for the dancefloor?
4. What is the highest possible cost for the dancefloor?

The dancefloor

India and Gemma are planning their wedding. They love dancing, so want there to be a nice dancefloor.

They plan to hire a dancefloor with an area of 64 m^2.

It costs £2.32 per 1m^2 of flooring. Each floor tile is 1m by 1m.

The edging for the floor costs 75p per metre.

1. What is the minimum possible perimeter of the dancefloor?
2. What is the maximum possible perimeter of the dancefloor?
3. What is the lowest possible cost for the dancefloor?
4. What is the highest possible cost for the dancefloor?
5. The cost of renting the floor comes to £165.80. What floor layout did India and Gemma choose?

The dancefloor

India and Gemma are planning their wedding. They love dancing, so want there to be a nice dancefloor.

They plan to hire a dancefloor with an area of 64 m^2. They can't decide whether they'd like the floor to have plain edging or light up edging.

It costs £2.32 per 1m^2 of flooring. Each floor tile is 1m by 1m.

The plain edging for the floor costs 75p per metre.

The light up edging costs £1.25 per metre

1. What is the minimum possible perimeter of the dancefloor?
2. What is the maximum possible perimeter of the dancefloor?
3. What is the lowest possible cost for the dancefloor?
4. What is the highest possible cost for the dancefloor?
5. What is the difference in cost between a dancefloor with a light up edge and a dancefloor with a plain edge?