

genetics study guide for 5th grade Manual

Genetics study guide for 5th grade

Understanding genetics can seem like a complex subject, but with the right approach, it becomes an exciting journey into the science of how living things inherit traits from their parents. This guide is designed specifically for 5th-grade students, making the topic easy to understand, engaging, and fun to learn. By the end of this article, you will have a solid foundation in genetics, including key concepts, interesting facts, and helpful tips to remember.

What Is Genetics?

Genetics is the branch of biology that studies how traits are passed from parents to their children. These traits can include eye color, hair type, height, and even certain health conditions. The study of genetics helps scientists understand why living things look the way they do and how they inherit characteristics from their ancestors.

Key Vocabulary in Genetics

Before diving deeper, it's important to learn some basic terminology:

Genes

Genes are tiny units inside our bodies that carry information about our traits. Think of genes as instructions or recipes that tell your body how to grow and develop.

DNA

DNA (deoxyribonucleic acid) is the long, winding molecule that contains all the genes. It's like a giant instruction manual for building and maintaining living organisms.

Chromosomes

Chromosomes are structures inside cells that hold genes. Humans have 23 pairs of chromosomes, for a total of 46.

Hereditary Traits

Traits that are passed from parents to children. Examples include eye color, hair color, and height.

Dominant and Recessive Traits

Some traits are dominant, meaning they are more likely to show up in the offspring. Recessive traits only show up if a person inherits the gene from both parents.

The Basics of How Traits Are Inherited

How Genes Work

Genes come in pairs ? one from each parent. Each parent passes one gene for each trait. For example, if you inherit a gene for blue eyes from one parent and a gene for brown eyes from the other, the dominant gene (usually brown) will determine your eye color.

Dominant and Recessive Genes

- Dominant gene: The trait that is expressed when at least one dominant allele is present.
- Recessive gene: The trait that is only expressed if two recessive alleles are inherited.

Examples of Traits

| Trait | Dominant | Recessive |

|-----|-----|-----|

| Eye color | Brown | Blue |

| Hair type | Curly | Straight |

| Dimples | Present | Absent |

Understanding Punnett Squares

Punnett squares are tools that help predict possible traits of offspring based on the genes of the parents. They show all the possible combinations of genes.

How to Use a Punnett Square

- Write down the alleles (genes) from each parent on the top and side.
- Fill in the squares with combinations of alleles.

- Analyze the results to see the chances of different traits.

Example

Suppose one parent has the gene for brown eyes (B) and the other for blue eyes (b). The Punnett square can show the probability of their child inheriting each trait.

| B | B |

|---|---|---|

| b | Bb | Bb |

| b | Bb | Bb |

All children will have at least one B, so they will most likely have brown eyes.

Genetics in Real Life

Genetics isn't just about plants and animals; it also applies to humans and the world around us.

Genetics and Family Traits

- You might notice that you resemble your family members because of shared genes.
- Traits like eye color, hair type, and freckles often run in families.

Genetics and Evolution

- Over many generations, species can change because of genetic differences.
- This process is called evolution and helps species survive in changing environments.

Genetics in Medicine

- Scientists study genetics to understand diseases and develop treatments.
- Some health conditions are inherited, such as certain types of anemia or cystic fibrosis.

Fun Facts About Genetics

- All humans share about 99.9% of their DNA.
- Dogs and wolves are closely related because of their genetic similarities.
- Some plants can reproduce using genetics, like strawberries that grow from runners.

Why Is Studying Genetics Important?

Studying genetics helps us learn more about ourselves and the world. It can lead to discoveries that improve health, agriculture, and the environment.

Benefits of Learning About Genetics

- Understanding inherited traits helps us appreciate our differences and similarities.
- It can explain why certain traits run in families.
- It encourages curiosity about science and nature.

Tips for Studying Genetics

- Use diagrams and pictures to visualize concepts like Punnett squares and DNA structure.
- Relate genetics to everyday life, like family traits or pet features.
- Play games that involve matching traits or predicting offspring traits.
- Ask questions and explore topics like cloning, genetic engineering, and DNA testing.

Summary

Genetics is a fascinating science that explains how living things inherit their traits. From the tiny molecules inside our cells to the differences between species, genetics helps us understand the diversity of life on Earth. Remember, genes are the instructions inside our bodies, and they come from our parents. By learning about dominant and recessive traits, Punnett squares, and real-world applications, you can become a young geneticist and develop a greater appreciation for the natural world.

Additional Resources for Young Learners

- Science books about genetics for kids.
- Educational videos and animations explaining DNA and heredity.
- Interactive online games that teach about genetics concepts.
- Visiting science museums or participating in science workshops.

By exploring the wonders of genetics, you join a global community of curious minds eager to understand the secrets of life. Keep asking questions, exploring new ideas, and enjoy your journey into the exciting world of genetics!

Genetics Study Guide for 5th Grade: An In-Depth Exploration for Young Learners and Educators

Understanding genetics can seem like a daunting task for young students, but with the right approach and tools, fifth graders can begin to grasp the fundamental concepts of inheritance, genes, and DNA. A well-structured genetics study guide for 5th grade serves as an invaluable resource for teachers, parents, and students alike, bridging complex scientific ideas with accessible explanations. This article delves into the essential components of such a guide, examining how it can be designed to foster curiosity, comprehension, and enthusiasm for genetics among young learners.

The Importance of a Genetics Study Guide for 5th Grade

Introducing genetics to fifth graders is a pivotal step in science education. At this stage, children are developing the cognitive skills necessary to understand abstract concepts and are often curious about their own bodies and family traits. A dedicated study guide simplifies complex topics, making them engaging and relevant.

Key reasons for utilizing a genetics study guide at this level include:

- Building Foundational Knowledge: Establishing basic terminology and concepts that will support future scientific learning.
- Promoting Scientific Inquiry: Encouraging questions and exploration about how traits are inherited.
- Fostering Critical Thinking: Developing the ability to compare, contrast, and analyze hereditary patterns.
- Connecting to Real Life: Making genetics relatable through examples from family, animals, and plants.

Core Components of an Effective Genetics Study Guide for 5th Grade

A comprehensive study guide should be carefully structured to progressively build understanding. Here are the essential components:

1. Introduction to Genetics

- Definition of Genetics: The study of how traits are passed from parents to children.
- Why Genetics Matters: Understanding who we are, why we look like our families, and how traits vary among individuals.

2. Basic Vocabulary and Concepts

Introducing key terms in simple language, such as:

- Genes: The tiny instructions inside our bodies that determine traits.
- DNA: The molecule that carries genetic information.
- Traits: Characteristics like hair color, eye color, or height.
- Inherited Traits: Traits passed from parents to children.
- Dominant and Recessive Traits: Which traits show up more often.
- Genotype and Phenotype: The genetic makeup and observable traits.

3. Visual Aids and Diagrams

Using pictures, charts, and illustrations to depict:

- The structure of DNA (simplified).
- Punnett squares to demonstrate inheritance patterns.
- Family trees showing inherited traits.

4. Activities and Interactive Exercises

Hands-on activities reinforce learning:

- Trait Surveys: Students collect data about their own traits and family traits.
- Punnett Square Practice: Simple exercises to predict offspring traits.
- Matching Games: Pairing vocabulary words with their definitions.
- Animal and Plant Breeding Simulations: Exploring how traits are inherited through simulations.

5. Real-Life Examples and Applications

Connecting genetics to everyday life:

- Family features (e.g., eye color, dimples).

- Breeds of animals and varieties of plants.
- How genetics influence health and medicine.

6. Review Questions and Quizzes

Short assessments to reinforce key concepts and ensure comprehension.

Deep Dive into Key Topics for 5th Graders

To truly understand genetics at a fifth-grade level, it's important to explore some core topics thoroughly but simply.

Understanding Genes and DNA

Genes are like tiny instructions inside our bodies that tell us how to grow and develop. Think of them as a recipe book that contains all the recipes (instructions) for building different parts of our body. DNA, or deoxyribonucleic acid, is the molecule that holds these instructions. While DNA is complex, simplified diagrams can show it as a twisted ladder, called a double helix.

Simplified Explanation:

Imagine a zipper that's zipped up. The teeth of the zipper are like the building blocks of DNA, called bases. The sequence of these bases determines the instructions for traits.

Traits and How They Are Inherited

Traits are features or characteristics that can be passed from parents to children. Some traits are dominant, meaning they are more likely to show up, while others are recessive and may only appear if both parents pass them on.

Examples of Traits:

- Eye color
- Hair color
- Height
- Ear lobes (attached or free)
- Curly or straight hair

Inheritance Patterns:

- If a parent has brown eyes (dominant) and the other has blue eyes (recessive), their child is more likely to have brown eyes, but it's possible to inherit blue if the recessive gene is passed on.

Using Punnett Squares to Predict Traits

Punnett squares are simple diagrams that help predict the probability of traits in offspring.

Example:

Suppose a tall plant (T) is crossed with a short plant (t). The Punnett square shows all possible combinations:

| T | T |

|----|---|---

| t | Tt | Tt |

| t | Tt | Tt |

All the offspring will be tall, but some may carry the recessive gene for short height.

Designing a Child-Friendly and Engaging Study Guide

To maximize effectiveness, the study guide should incorporate features tailored for fifth graders:

- Bright Colors and Illustrations: Visual appeal keeps students engaged.
- Simple Language: Avoid technical jargon without explanation.
- Real-Life Contexts: Use relatable examples from family, pets, or nature.
- Interactive Components: Quizzes, puzzles, and hands-on activities.
- Clear Layouts: Sections with headings, bullet points, and summaries.

Additional Resources and Teaching Strategies

Educators can enhance the learning experience with supplementary tools:

- Educational Videos: Short clips explaining DNA and inheritance.
- Models and Kits: DNA model-building kits or plant breeding experiments.
- Guest Speakers: Inviting scientists or genetic counselors to talk about their work.

- Field Trips: Visits to local farms, botanical gardens, or science museums.

Furthermore, emphasizing inquiry-based learning encourages students to ask questions such as:

- Why do siblings look different?
- How do animals inherit traits?
- Can traits change over generations?

Encouraging curiosity helps students develop a deeper appreciation for genetics.

Conclusion: The Value of a Well-Crafted Genetics Study Guide for 5th Grade

A thoughtfully designed genetics study guide for 5th grade is more than just a compilation of facts; it is a gateway to scientific exploration. By breaking down complex concepts into manageable, engaging segments, educators can inspire young learners to appreciate the wonders of inheritance and biological diversity. As children explore their own traits and those of the world around them, they develop critical thinking skills and a lifelong interest in science.

In sum, a comprehensive guide should combine clear explanations, visual aids, practical activities, and real-world examples, all tailored to the cognitive level of fifth graders. Such resources lay the groundwork for future scientific learning and foster a sense of curiosity that can last a lifetime.

Question What is genetics? Genetics is the study of how traits and characteristics are passed from parents to their children. Why do you look like your parents? Because you inherit genes from your parents that determine your features like eye color, hair type, and height. What are genes? Genes are tiny parts inside your body's cells that carry information about your traits. Can siblings have different traits? Yes, even siblings can have different eye colors or hair types because they inherit different combinations of genes. What is DNA? DNA is the special molecule inside cells that contains the instructions for how your body grows and develops. Why is studying genetics important? Studying genetics helps us understand how traits are passed down and can help in medical research and understanding diseases.

Related keywords: genes, DNA, heredity, chromosomes, traits, inheritance, genetic code, mutation, dominant, recessive

pixl maths papers grade boundaries

pixl maths papers grade boundaries are a crucial aspect for students, teachers, and parents navigating the GCSE examination process. Understanding how grade boundaries are determined and what they mean for exam performance can help students set realistic goals, prepare effectively, and interpret their results accurately. In this comprehensive guide, we will explore the concept of grade boundaries in PIXL Maths papers, how they are calculated, and how to use this information to maximize success in your exams.

What Are Pixl Maths Papers Grade Boundaries?

Grade boundaries in Pixl Maths papers refer to the minimum marks required to achieve a specific grade. These boundaries are set by exam boards after the exams are marked, based on various statistical analyses, to ensure fairness and consistency across different exam sessions. They serve as a threshold system: if a student scores above a certain mark, they will be awarded the corresponding grade.

Why Are Grade Boundaries Important?

- **Assessment of Performance:** Grade boundaries provide a clear benchmark to assess student achievement relative to their peers.
- **Understanding Results:** They help students interpret their raw scores, understanding whether they have met the criteria for their target grades.
- **Preparation Planning:** Knowledge of grade boundaries can influence revision strategies, focusing on areas that are more likely to push scores into higher grade brackets.
- **Fairness and Standardization:** They ensure that results are comparable across different exam sessions, accounting for variations in exam difficulty.

How Are Pixl Maths Grade Boundaries Calculated?

Grade boundaries are not arbitrary; they are based on rigorous statistical analysis of exam performance. The process involves multiple steps:

1. Post-Exam Marking and Data Collection

After exams are completed, examiners mark the scripts and record the raw scores for each student. This data collection forms the foundation for analysis.

2. Standard Setting and Statistical Analysis

Qualified experts and examiners analyze the data to determine the distribution of scores. They consider factors such as:

- Overall exam difficulty
- Student performance trends
- Historical data from previous years

Using statistical methods, they establish cut-off points that differentiate between grades.

3. Adjustments for Fairness

To ensure fairness, adjustments may be made to account for variations in exam difficulty or unexpected events. The goal is to maintain consistency in grading standards year after year.

4. Publication of Grade Boundaries

Once finalized, exam boards publish grade boundaries online, often shortly after results are released, providing transparency for students and educators.

Typical Grade Boundaries for Pixl Maths Papers

While grade boundaries can fluctuate annually based on exam difficulty and student performance, typical ranges can serve as helpful benchmarks. Below is an overview of approximate grade boundaries based on historical data for Pixl GCSE Maths papers:

Foundation Tier (Grades 1-5)

- Grade 1: 10-20 marks
- Grade 2: 21-30 marks
- Grade 3: 31-40 marks
- Grade 4: 41-50 marks
- Grade 5: 51-60 marks

Higher Tier (Grades 4-9)

- Grade 4: 55-65 marks
- Grade 5: 66-75 marks
- Grade 6: 76-85 marks
- Grade 7: 86-95 marks
- Grade 8: 96-105 marks
- Grade 9: 106-115+ marks

Note: These are approximate figures; actual boundaries vary annually. Always check the official grade boundary releases for precise information.

How to Use Pixl Maths Grade Boundaries Effectively

Understanding grade boundaries is just the first step. Here's how students can leverage this knowledge for better exam preparation and interpretation:

1. Set Realistic Targets

Based on your current performance and the known grade boundaries, set achievable goals for each exam. For example, if you aim for a Grade 5, plan to score at least 55-60 marks.

2. Focus on Marginal Areas

Identify which questions or topics tend to be borderline for your target grade. Focus revision on these areas to push your scores higher.

3. Use Past Papers and Mark Schemes

Practicing with past Pixl Maths papers helps you familiarize yourself with question styles and difficulty levels, giving you a sense of where your scores stand relative to grade boundaries.

4. Analyze Your Mock Results

Compare your mock exam scores with the grade boundaries to determine how close you are to your target grades. This can guide your revision priorities.

5. Stay Informed

Keep an eye on official updates from Pixl and other exam boards regarding grade boundary changes each year to adapt your expectations and strategies accordingly.

Tips for Achieving Higher Grades in Pixl Maths Exams

Achieving a higher grade boundary requires strategic preparation. Here are some tips:

Practice Regularly

Consistent practice with past papers improves problem-solving speed and accuracy, essential for maximizing marks.

Identify Weak Areas

Use feedback from mock exams and practice papers to focus revision on topics where you lose the most marks.

Master Key Concepts and Techniques

Solid understanding of fundamental concepts and formulae enables quicker problem-solving and reduces mistakes.

Time Management Skills

Practice completing papers within the allotted time to ensure you can attempt all questions confidently.

Seek Help When Needed

Don't hesitate to ask teachers or tutors for clarification on difficult topics, ensuring your understanding is thorough.

Conclusion

Pixl Maths papers grade boundaries are a vital component of GCSE assessment that help define the standards required for each grade. While these boundaries can fluctuate annually, understanding how they are set and what they mean for your performance can significantly influence your revision approach and exam strategy. By practicing past papers, setting realistic goals, and staying informed about official grade boundary releases, students can optimize their chances of achieving their desired grades. Remember, success in GCSE Maths is not just about crossing a specific boundary but about consistent effort, strategic preparation, and a clear understanding of the grading standards.

Always refer to the official Pixl website or your exam centre for the most current grade boundary figures and updates. With the right preparation and awareness, you can confidently aim for the grades you aspire to and demonstrate your full potential in your Pixl Maths exams.

Pixl Maths Papers Grade Boundaries: A Comprehensive Guide for Students and Educators

Understanding the Pixl Maths papers grade boundaries is essential for students aiming to gauge their performance accurately and for teachers preparing students effectively. Grade boundaries serve as the benchmark scores that determine whether a student receives a particular grade, such as a pass, merit, or distinction. With the evolving nature of assessment standards and the unique

structure of Pixl qualifications, it is crucial to analyze how these boundaries are set, what factors influence them, and how students can interpret them to better prepare for their exams. This guide provides an in-depth look into Pixl Maths papers grade boundaries, offering insights, practical tips, and a detailed breakdown to help both students and educators navigate this important aspect of the assessment process.

What Are Pixl Maths Papers Grade Boundaries?

Definition and Purpose

Grade boundaries for Pixl Maths papers are the minimum scores required to achieve specific grades in the qualification. They are not fixed and can vary year by year depending on several factors, including the difficulty level of the exam and overall student performance.

How Are Grade Boundaries Determined?

The process of setting grade boundaries involves a combination of statistical analysis and examiner judgment. Typically, the awarding body, in this case, Pixl, conducts a standard-setting process that considers:

- Exam difficulty: If an exam is particularly challenging, grade boundaries may be adjusted downward to reflect the higher difficulty.
- Candidate performance: The distribution of marks achieved by all students influences where boundaries are set.
- Historical data: Past performance data helps inform where boundaries should lie to maintain consistent standards over time.
- Standardization: Ensuring fairness and consistency across different exam sessions and cohorts.

When Are Grade Boundaries Released?

Pixl usually publishes the grade boundaries shortly after the exam series concludes and the marking process is complete. This typically occurs within a few weeks, providing students and teachers with clarity on performance standards.

The Importance of Understanding Grade Boundaries

For Students

- Performance Assessment: Knowing grade boundaries helps students understand how well they

need to perform to achieve their target grade.

- Effective Revision: By analyzing previous boundaries, students can identify the level of accuracy required in their responses.
- Goal Setting: Clear boundaries enable students to set realistic goals and focus their revision efforts.

For Educators

- Assessment Planning: Teachers can design lessons and practice questions aligned with current grade boundary standards.
- Feedback & Support: Understanding boundaries allows for better feedback and targeted interventions for students near the pass or merit thresholds.
- Data Analysis: Comparing cohort performance against boundaries helps assess the effectiveness of teaching strategies.

Trends and Insights in Pixl Maths Grade Boundaries

Variability Over Years

Grade boundaries tend to fluctuate annually due to varying exam difficulties and student performances. For example:

- In some years, boundaries for a Grade 4 (standard pass) may be set around 50%, while in others, they might be higher or lower depending on exam difficulty.
- The boundaries for higher grades like Grade 7 or 8 are generally more stable but can still shift slightly.

Impact of Exam Style and Content

Changes in exam style, such as increased emphasis on problem-solving or application-based questions, can influence the grade boundaries. More challenging questions may lower the boundaries needed for passing grades, while raising the bar for top grades.

Comparing Pixl to Other Exam Boards

While each awarding body sets its own boundaries, Pixl's standards are generally aligned with other GCSE Maths exam boards. However, students should always consult the specific boundaries published for their exam series to ensure accurate understanding.

How to Find the Latest Pixl Maths Papers Grade Boundaries

Official Sources

- Pixl's Exam Website: The most reliable and up-to-date information is available directly from Pixl's official website or the exam administration portal.
- Published Reports: After each exam series, Pixl publishes grade boundaries in official reports accessible to schools and students.

School Support

- Teachers and school exam officers often have access to grade boundary data and can provide insights tailored to specific cohorts.
- Many schools also distribute grade boundary information through revision sessions or exam prep materials.

Online Resources and Forums

- Educational forums and revision sites often compile and discuss recent grade boundaries, especially post-exam.
- However, always verify the authenticity of this information against official sources.

Practical Tips for Students: Making the Most of Grade Boundary Information

- Review Past Boundaries: Analyze previous years' grade boundaries to understand the level of detail and accuracy needed.
- Practice under Exam Conditions: Simulate exam conditions to improve your ability to reach or surpass the required score thresholds.
- Identify Weak Areas: Use boundary data to identify topics where you need to improve, especially if your scores are close to the boundary.
- Set Realistic Goals: Based on current performance and boundary data, set achievable targets for each exam attempt.
- Stay Updated: Always check the latest grade boundaries published after your exam series to evaluate your performance accurately.

Interpreting Grade Boundaries: A Step-by-Step Guide

Step 1: Find the Boundary Scores

Locate the official grade boundary scores for your exam series, including the marks required for each grade.

Step 2: Match Your Raw Score

Compare your raw score (the number of marks obtained) to these boundaries.

Step 3: Determine Your Grade

- If your score is equal to or above the boundary for a particular grade, you can expect to receive that grade.
- If your score is just below a boundary, consider the margin and your potential to improve in future attempts.

Step 4: Plan Next Steps

- Above the Boundary: Celebrate your success and consider higher-grade aspirations.
- Below the Boundary: Identify areas for improvement and plan targeted revision strategies.

Future Outlook and Considerations

Continuous Standard-Setting

Pixl and other exam boards continually refine their standard-setting processes to ensure fairness and maintain standards. As assessments evolve, so too will the grade boundaries.

Impact of External Factors

Factors such as disruptions (e.g., exam cancellations or shifts to online assessments) can influence grade boundaries, sometimes leading to adjustments to account for differing exam conditions.

Preparing for Variability

Students should focus on mastering core concepts and practicing consistently, rather than relying solely on historical grade boundary data, as boundaries can shift based on exam difficulty and cohort performance.

Conclusion

The Pixl Maths papers grade boundaries are a vital component in understanding exam performance and setting realistic academic goals. While they fluctuate annually based on multiple factors, understanding how they are set and how to interpret them empowers students to approach their assessments with confidence. By staying informed through official sources, analyzing past boundaries, and practicing effectively, students can optimize their chances of achieving their desired grades. Educators, in turn, can leverage this knowledge to tailor instruction and support, ensuring that learners are well-prepared to meet or exceed the standards set by Pixl. Ultimately, a thorough grasp of grade boundaries enhances transparency and fairness in the assessment process, fostering a more motivating and equitable environment for GCSE Maths candidates.

Question What are Pixl maths papers grade boundaries for 2023? Pixl maths papers grade boundaries for 2023 vary depending on the exam series and are typically released by the exam board shortly after results are published. It's best to check the official Pixl or exam board website for the most accurate and up-to-date grade boundaries. How do Pixl maths paper grade boundaries compare to other exam boards? Pixl grade boundaries are generally comparable to other exam boards like Edexcel or AQA, but slight variations can occur. It's important to refer to the official grade boundaries for each exam series for precise information. Where can I find official Pixl maths paper grade boundaries? Official Pixl maths paper grade boundaries are published on the Pixl website and the specific exam board's results portal shortly after the exams are marked and results are released. How are Pixl maths grade boundaries calculated? Grade boundaries for Pixl maths papers are determined by the exam board based on the distribution of marks, difficulty of the paper, and statistical analysis to ensure fair grading standards across different exam sessions. What is the typical grade boundary for a grade 5 in Pixl maths papers? While it varies each year, a grade 5 in Pixl maths papers often requires approximately 60-65% of the total marks, but students should consult the specific grade boundary for their exam series for exact figures. Can students estimate their grade based on Pixl maths paper grade boundaries? Students can estimate their likely grade by comparing their raw scores to the published grade boundaries, but only official results confirm the final grade. Are Pixl maths grade boundaries adjusted for different tiers (foundation or higher)? Yes, Pixl maths papers often have separate grade boundaries for foundation and higher tiers, reflecting the different levels of difficulty and mark schemes. How do I interpret Pixl maths paper grade boundaries after receiving my results? You can compare your raw score to the published grade boundaries to see what grade you have achieved. If your score is close to the boundary, it indicates a borderline grade, and you can review the official grade boundary chart for clarity. Are Pixl maths paper grade boundaries predictable for future exams? While historical data can provide some insight, grade boundaries can vary each year based on exam difficulty and statistical analysis, so they are not entirely predictable.

Related keywords: pixl maths papers, grade boundaries, PIXL exam scores, PIXL GCSE maths, PIXL grading criteria, PIXL assessment thresholds, PIXL exam results, GCSE maths grade

boundaries, PIXL marking scheme, PIXL exam papers

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