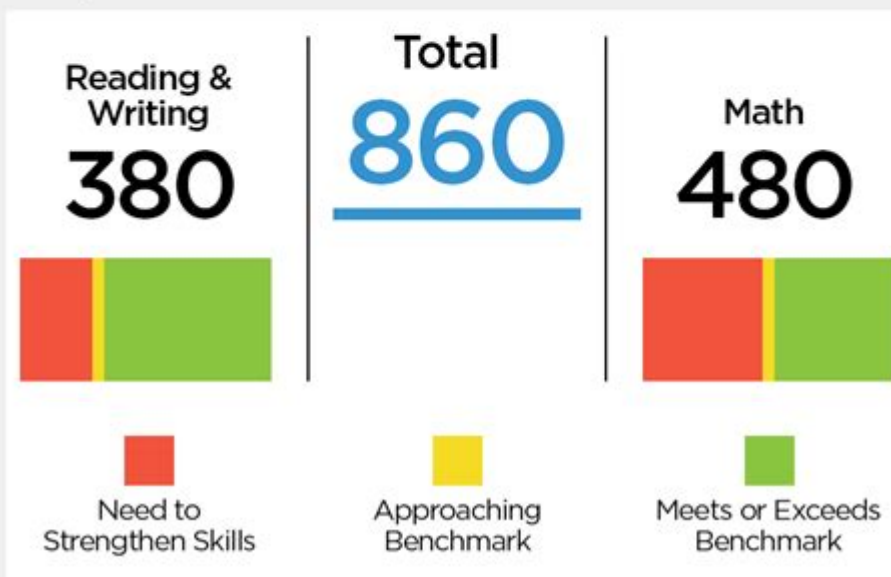


What Math Is On The Psat

Your PSAT Score Report Scores to Focus On:

- 1 Your TOTAL Score
- 2 Your READING & WRITING Score
- 3 Your MATH Score

Example:



WHAT MATH IS ON THE PSAT? THIS IS A QUESTION THAT MANY STUDENTS ASK AS THEY PREPARE FOR THIS IMPORTANT STANDARDIZED TEST. THE PSAT, OR PRELIMINARY SAT, IS A CRUCIAL STEPPING STONE FOR HIGH SCHOOL STUDENTS AIMING TO TAKE THE SAT, WHICH IS USED FOR COLLEGE ADMISSIONS. UNDERSTANDING THE MATH COMPONENTS OF THE PSAT CAN GREATLY ENHANCE A STUDENT'S PREPARATION AND CONFIDENCE ON TEST DAY. THIS ARTICLE WILL DELVE INTO THE MATH SECTIONS OF THE PSAT, THE TYPES OF QUESTIONS YOU CAN EXPECT, AND TIPS FOR PREPARING EFFECTIVELY.

OVERVIEW OF THE PSAT MATH SECTIONS

THE PSAT CONSISTS OF TWO MAIN SECTIONS: EVIDENCE-BASED READING AND WRITING, AND MATH. THE MATH SECTION IS DIVIDED INTO TWO DISTINCT PARTS:

1. NO CALCULATOR SECTION: THIS SECTION TESTS STUDENTS' ABILITY TO SOLVE PROBLEMS WITHOUT THE AID OF A

CALCULATOR.

2. CALCULATOR SECTION: IN THIS PART, STUDENTS CAN USE A SCIENTIFIC OR GRAPHING CALCULATOR TO ASSIST WITH PROBLEM-SOLVING.

EACH SECTION ASSESSES A VARIETY OF SKILLS AND CONCEPTS THAT ARE ESSENTIAL FOR SUCCESS IN HIGHER-LEVEL MATH COURSES AND STANDARDIZED TESTING.

CONTENT AREAS COVERED IN PSAT MATH

THE MATH SECTION OF THE PSAT EVALUATES STUDENTS ON SEVERAL KEY AREAS. THE CONTENT IS ALIGNED WITH THE COMMON CORE STATE STANDARDS AND INCLUDES THE FOLLOWING MAJOR TOPICS:

1. HEART OF ALGEBRA: THIS AREA FOCUSES ON LINEAR EQUATIONS AND INEQUALITIES, SYSTEMS OF EQUATIONS, AND INTERPRETING LINEAR FUNCTIONS.
2. PROBLEM SOLVING AND DATA ANALYSIS: THIS SECTION INVOLVES UNDERSTANDING AND USING RATIOS, PERCENTAGES, AND PROPORTIONAL REASONING, AS WELL AS ANALYZING DATA FROM TABLES AND GRAPHS.
3. PASSPORT TO ADVANCED MATH: THIS INCLUDES A DEEPER UNDERSTANDING OF QUADRATIC EQUATIONS, POLYNOMIAL EXPRESSIONS, AND FUNCTIONS. IT ALSO COVERS NON-LINEAR EXPRESSIONS AND THEIR CHARACTERISTICS.
4. ADDITIONAL TOPICS IN MATH: THIS SECTION INCLUDES GEOMETRY AND TRIGONOMETRY CONCEPTS, SUCH AS AREA, VOLUME, ANGLES, AND THE PYTHAGOREAN THEOREM.

QUESTION TYPES IN THE PSAT MATH SECTION

THE MATH QUESTIONS ON THE PSAT CAN BE CATEGORIZED INTO TWO MAIN TYPES:

- **MULTIPLE CHOICE QUESTIONS:** THESE QUESTIONS PROVIDE FOUR ANSWER CHOICES, AND STUDENTS MUST SELECT THE CORRECT ONE.
- **STUDENT-PRODUCED RESPONSE QUESTIONS (GRID-INS):** IN THESE QUESTIONS, STUDENTS MUST CALCULATE AN ANSWER AND FILL IN A GRID TO INDICATE THEIR RESPONSE. THIS FORMAT REQUIRES STUDENTS TO GENERATE ANSWERS WITHOUT RECEIVING OPTIONS.

THE MIX OF QUESTION TYPES ENCOURAGES STUDENTS TO DEMONSTRATE NOT ONLY THEIR COMPUTATIONAL SKILLS BUT ALSO THEIR REASONING AND ANALYTICAL ABILITIES.

NO CALCULATOR SECTION DETAILS

THE NO CALCULATOR SECTION OF THE PSAT COMPRISES APPROXIMATELY 20 QUESTIONS, WHICH MUST BE COMPLETED IN 25 MINUTES. THIS PART OF THE TEST EMPHASIZES:

- BASIC ARITHMETIC: OPERATIONS WITH WHOLE NUMBERS, FRACTIONS, DECIMALS, AND PERCENTAGES.
- ALGEBRA: SOLVING LINEAR EQUATIONS AND INEQUALITIES, AND UNDERSTANDING FUNCTION NOTATION.
- INTERPRETING DATA: ANALYZING AND INTERPRETING INFORMATION FROM TABLES AND GRAPHS.

STUDENTS ARE ENCOURAGED TO PRACTICE MENTAL MATH AND DEVELOP STRATEGIES TO SOLVE PROBLEMS EFFICIENTLY WITHOUT A CALCULATOR.

CALCULATOR SECTION DETAILS

THE CALCULATOR SECTION CONSISTS OF ABOUT 38 QUESTIONS AND ALLOWS STUDENTS TO USE A CALCULATOR TO ASSIST WITH THEIR CALCULATIONS. THIS PART FOCUSES ON:

- **COMPLEX PROBLEM SOLVING:** TACKLING REAL-WORLD PROBLEMS THAT MAY REQUIRE MULTIPLE STEPS AND THE INTEGRATION OF VARIOUS MATH CONCEPTS.
- **ADVANCED ALGEBRA:** WORKING WITH QUADRATIC EQUATIONS, SYSTEMS OF EQUATIONS, AND FUNCTIONS.
- **DATA ANALYSIS:** INTERPRETING DATA SETS, UNDERSTANDING STATISTICAL MEASURES, AND MAKING INFERENCES BASED ON DATA.

STUDENTS SHOULD FAMILIARIZE THEMSELVES WITH THEIR CALCULATORS AND PRACTICE USING THEM EFFECTIVELY TO SAVE TIME AND AVOID ERRORS DURING THE TEST.

PREPARATION STRATEGIES FOR PSAT MATH

TO EXCEL IN THE MATH SECTION OF THE PSAT, STUDENTS SHOULD ADOPT A COMPREHENSIVE PREPARATION STRATEGY THAT INCLUDES THE FOLLOWING STEPS:

1. **REVIEW KEY CONCEPTS:** GO THROUGH THE MATH TOPICS OUTLINED IN THE PSAT GUIDELINES. MAKE SURE YOU UNDERSTAND THE FUNDAMENTAL CONCEPTS IN EACH AREA.
2. **PRACTICE WITH REAL PSAT QUESTIONS:** UTILIZE OFFICIAL PSAT PRACTICE TESTS TO BECOME FAMILIAR WITH THE QUESTION FORMATS AND DIFFICULTY LEVELS.
3. **UTILIZE ONLINE RESOURCES:** WEBSITES AND PLATFORMS SUCH AS KHAN ACADEMY OFFER FREE RESOURCES AND PRACTICE EXERCISES TAILORED FOR THE PSAT.
4. **WORK ON TIMING:** PRACTICE COMPLETING SECTIONS WITHIN THE ALLOTTED TIME TO IMPROVE YOUR PACING AND COMFORT LEVEL ON TEST DAY.
5. **JOIN A STUDY GROUP:** COLLABORATING WITH PEERS CAN PROVIDE MOTIVATION AND DIFFERENT PERSPECTIVES ON SOLVING MATH PROBLEMS.

TIPS FOR TEST DAY

ON THE DAY OF THE PSAT, STUDENTS SHOULD KEEP A FEW KEY STRATEGIES IN MIND TO MAXIMIZE THEIR PERFORMANCE:

- **READ EACH QUESTION CAREFULLY:** ENSURE THAT YOU FULLY UNDERSTAND WHAT IS BEING ASKED BEFORE ATTEMPTING TO ANSWER.
- **MANAGE YOUR TIME WISELY:** IF YOU ARE STUCK ON A QUESTION, MOVE ON AND COME BACK TO IT LATER IF TIME PERMITS.
- **DOUBLE-CHECK YOUR WORK:** IF TIME ALLOWS, REVISIT YOUR ANSWERS TO ENSURE ACCURACY, ESPECIALLY IN THE NO CALCULATOR SECTION WHERE MISTAKES CAN BE MORE COMMON WITHOUT COMPUTATIONAL AIDS.
- **STAY CALM AND FOCUSED:** TEST ANXIETY IS COMMON, BUT MAINTAINING A POSITIVE MINDSET CAN SIGNIFICANTLY IMPACT YOUR PERFORMANCE.

CONCLUSION

UNDERSTANDING **WHAT MATH IS ON THE PSAT** IS CRUCIAL FOR EFFECTIVE PREPARATION. THE MATH SECTION IS DESIGNED TO

ASSESS A WIDE RANGE OF SKILLS AND KNOWLEDGE THAT ARE PIVOTAL FOR SUCCESS IN HIGHER EDUCATION. BY FAMILIARIZING YOURSELF WITH THE CONTENT AREAS, QUESTION TYPES, AND EFFECTIVE PREPARATION STRATEGIES, YOU CAN APPROACH THE PSAT WITH CONFIDENCE. REMEMBER, CONSISTENT PRACTICE AND A THOROUGH UNDERSTANDING OF KEY CONCEPTS ARE THE BEST WAYS TO ACHIEVE A HIGH SCORE IN THE MATH SECTION OF THE PSAT. GOOD LUCK!

FREQUENTLY ASKED QUESTIONS

WHAT TYPES OF MATH CONCEPTS ARE COVERED ON THE PSAT?

THE PSAT COVERS A VARIETY OF MATH CONCEPTS INCLUDING ALGEBRA, PROBLEM-SOLVING AND DATA ANALYSIS, AND ADVANCED MATH TOPICS SUCH AS GEOMETRY AND TRIGONOMETRY.

IS THERE A CALCULATOR SECTION ON THE PSAT MATH PORTION?

YES, THE PSAT INCLUDES TWO MATH SECTIONS: ONE WHERE A CALCULATOR IS ALLOWED AND ANOTHER WHERE CALCULATORS ARE NOT PERMITTED.

HOW MANY MATH QUESTIONS ARE ON THE PSAT?

THE PSAT HAS A TOTAL OF 48 MATH QUESTIONS, DIVIDED BETWEEN THE TWO MATH SECTIONS.

WHAT LEVEL OF MATH DO I NEED TO KNOW FOR THE PSAT?

STUDENTS SHOULD BE FAMILIAR WITH MATH CONCEPTS UP TO THE LEVEL OF ALGEBRA II, INCLUDING EQUATIONS, FUNCTIONS, AND SOME BASIC TRIGONOMETRY.

ARE THERE ANY GEOMETRY QUESTIONS ON THE PSAT?

YES, THE PSAT INCLUDES GEOMETRY QUESTIONS THAT ASSESS UNDERSTANDING OF SHAPES, VOLUMES, AND THEOREMS RELATED TO ANGLES AND TRIANGLES.

HOW CAN I PREPARE FOR THE MATH PORTION OF THE PSAT?

TO PREPARE FOR THE MATH PORTION OF THE PSAT, STUDENTS SHOULD REVIEW KEY MATH CONCEPTS, PRACTICE WITH OFFICIAL PSAT PRACTICE TESTS, AND CONSIDER USING STUDY GUIDES OR TUTORING RESOURCES.

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What Math Is On The Psat

Exercices corrigés - Calcul exact d'intégrales

Déterminer toutes les primitives des fonctions suivantes, sur un intervalle bien choisi : $f_1(x) = 5x^3 - 3x + 7$ et $f_2(x) = \dots$

Exercices corrigés - Équations différentielles linéaires du premier ...

Exercices corrigés - Équations différentielles linéaires du premier ordre - résolution, applications

Exercices corrigés - Formes linéaires, hyperplans, dualité

Exercice 1 - Quelques remarques sur les formes linéaires [Signaler une erreur] [Ajouter à ma feuille d'exos]

Exercices corrigés - Intégrales multiples

On commence par écrire le domaine d'une meilleure façon. On a en effet :

Ressources pour la math sup - Bibm@th.net

Ressources pour la math sup Cette page contient des documents pour la Math Sup, basés sur le programme en vigueur jusqu'à l'année scolaire 2020/2021. Le programme a évolué à la ...

Exercices corrigés - Intégrales à paramètres

Exercice 1 - Continuité d'une intégrale à paramètres [Signaler une erreur] [Ajouter à ma feuille d'exos]

Liczby względnie pierwsze - Matematyka

Liczby względnie pierwsze Liczby względnie pierwsze Jeżeli dwie liczby całkowite a i b spełniają warunek $\text{NWD}(a,b)=1$, czyli nie mają żadnego naturalnego dzielnika oprócz 1, to liczby takie ...

Bibm@th, la bibliothèque des mathématiques²

Le mathématicien autrichien Hans Hahn étudie à l'université de Vienne où il est très ami avec 3 autres futurs grands scientifiques, Paul Ehrenfest, Heinrich Tietze et Herglotz. ... Afficher sa ...

Exercices corrigés - Intégrales curvilignes

On pourra d'abord montrer que la forme différentielle est fermée, et utiliser le théorème de Poincaré. Pour la recherche des primitives, on résoudra successivement les équations aux ...

Testy matematyczne

Testy dla uczniów i nie tylko. Sprawdź swoją wiedzę matematyczną.

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