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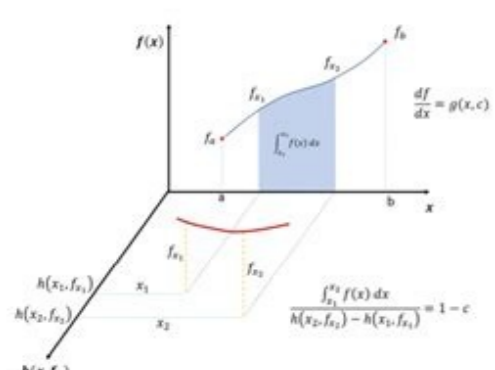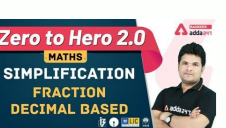
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Simplification and approximation problems pdf

SBI Clerks
Quantitative Aptitude

Directions (Q.No.1-5): What should come in place of question mark (?) in the following questions?

1. $(25)^3 \div 625 \times 5^5 = (5)^?$
   1) 8   2) 6   3) 7
   4) 2   5) None of these

2. $23 \times 15 \div 25 - ? + 48.2 = -35$
   1) 68   2) 86   3) 91
   4) 97   5) None of these

3. $120 \times ? = 10 \div \dfrac{126 \times 0.5}{63 \times 2} \times 12$
   1) 12   2) 4   3) 3
   4) 2   5) None of these

4. $\dfrac{\left((12)^{-2}\right)^2}{\left((12)^2\right)^{-2}} = ?$
   1) 12   2) 144   3) 64
   4) 24   5) None of these

5. $9^{10.5} \times 9^{5.1} \div 9^{1.2} = 9^?$
   1) 14.4   2) 7.2   3) 6.6
   4) 4.2   5) None of these

6. The average marks of a student in Maths and English is 75. His average of marks in Maths and Science is 65. What is the difference between the marks which he obtained in English and Science?
   1) 20   2) 10   3) 30
   4) 25   5) None of these

7. A sells an article to B at a gain of 15% and B sells it to C at a gain of 10%. If C pays Rs.506 for it, what did it cost to A?
   1) Rs.320   2) Rs.425   3) Rs.375
   4) Rs.400   5) None of these

SIMPLIFICATION
Day 1

Directions: What will come in place of the question mark (?) in the following questions?

1. $7\frac{3}{7}$ of $189 + 452 = 2000 - ?$
   (a) 183   (b) 164   (c) 170
   (d) 198   (e) None of these

2. 68% of 595 – 43% of 372 = ?
   (a) 244.64   (b) 232.84   (c) 278.44
   (d) 260.24   (e) None of these

3. 35% of (?) = 2175.95
   (a) 6712   (b) 6217   (c) 6127
   (d) 6721   (e) None of these

4. $(45)^2 + (21)^2 = (?)^2 + 257$
   (a) 51   (b) 49   (c) 45
   (d) 47   (e) None of these

5. $90780 \div \sqrt{?} = 85 \times 12$
   (a) 89   (b) 7921   (c) 7569
   (d) 87   (e) None of these

6. $\dfrac{15 \times 11 + 45}{13 \times 9 - 30} = ?$
   (a) $2\frac{1}{5}$ (b) $2\frac{7}{9}$ (c) $5\frac{3}{10}$
   (d) $3\frac{8}{17}$ (e) None of these

13. $\left(\frac{37}{119} \times \frac{98}{14}\right)^2 = ?$
   (a) 5   (b) 7   (c) 3
   (d) 9   (e) None of these

14. $\sqrt{12321} = ?$
   (a) 111   (b) 121   (c) 81
   (d) 91   (e) None of these

15. 72% of 654 – 41% of 312 = ?
   (a) 276.60   (b) 296.72   (c) 336.84
   (d) 342.96   (e) None of these

16. $2376 \div 32 = ?$
   (a) 74.25   (b) 67   (c) 64.5
   (d) 0.69   (e) None of these

17. $67539 + 43908 = ? + 78902$
   (a) 30125   (b) 31265   (c) 32455
   (d) 33555   (e) None of these

18. $2520 \div 14 \div 9 = ?$
   (a) 22   (b) 18   (c) 20
   (d) 16   (e) None of these

19. 3.2% of 250 + 1.8% of 400 = ?
   (a) 14.8   (b) 15.75   (c) 14.75
   (d) 15.2   (e) None of these

20. $2.28 \times 12.5 - 6.5 \times 2.4 = ?$
   (a) 16.4   (b) 16.2   (c) 15.6

How to solve simplification and approximation quickly. 1000 problems on approximation and simplification pdf.

Physicists often approximate the shape of the Earth as a sphere even though more accurate representations are possible, because many physical characteristics (e.g., gravity) are much easier to calculate for a sphere than for other shapes. ≲ {\displaystyle \lessapprox } (\lessapprox) and ≳ {\displaystyle \gtrapprox } (\gtrapprox), usually to indicate that either the inequality holds or the two values are approximately equal. The results of computer calculations are normally an approximation expressed in a limited number of significant digits, although they can be programmed to produce more precise results.[3] Approximation can occur when a decimal number cannot be expressed in a finite number of binary digits. Log tables, slide rules and calculators produce approximate answers to all but the simplest calculations. ^ D & D Standard Oil & Gas Abbreviator. Here at Smartkeeda you will get Simple Interest PDF with Tricks to Solve Fast. simplification simplification questions simplification tricks simplification questions pdf simplification for sbi clerk 2021 simplification math simplification of fractions simplification problems simplification formula simplification quiz simplification questions for bank exams simplification questions for ibps clerk simplification questions in hindi simplification online test simplification tricks in hindi simplification for ibps clerk simplification speed test simplification for ibps clerk 2021 simplification problems for ibps po simplification sbi clerk simplification and approximation questions for bank clerk simplification exercises simplification hindi simplification using bodmas simplification with solution simplification easy tricks simplification tricks pdf download simplification test for ibps clerk simplification easy questions simplification rules pdf Friends, Simplification and Approximation are most important topic for Bank Clerk Exams. So you need to practice power based simplification as well. Typography ≈ ≈ Approximately equal to. Approximation is also used to analyze the motion of several planets orbiting a star. So writing π ≈ 3.14 {\displaystyle \pi \simeq 3.14} would be wrong under this definition, despite wide use. The use of perturbations to correct for the errors can yield more accurate solutions. ≐ approaches a limit External links Look up approximation in Wiktionary, the free dictionary. This process may be repeated until a satisfactory precise solution is obtained. Science Approximation arises naturally in scientific experiments. Calculations are likely to involve rounding errors and other approximation errors. Simple Interest is a quick and easy method of calculating the interest charge on a loan taken by any means. Wolfram MathWorld. ~ {\displaystyle \sim } (\sim), usually to indicate proportionality between functions, the same f (n) {\displaystyle f(n)} of the line above will be f (n) ~ n 2 {\displaystyle f(n)\sim n^{2}} . No consistent notation is used throughout mathematics and some texts use ~ to mean approximately equal and ~ to mean asymptotically equal whereas other texts use the symbols the other way around. The term can be applied to various properties (e.g., value, quantity, image, description) that are nearly, but not exactly correct; similar, but not exactly the same (e.g., the approximate time was 10 o'clock). Please help improve this article by adding citations to reliable sources. Thus, even when the exact representation is known, an approximation may yield a sufficiently accurate solution while reducing the complexity of the problem significantly. Approximation usually occurs when an exact form or an exact numerical number is unknown or difficult to obtain. For example, simple calculations may not include the effect of air resistance. Etymology and usage The word approximation is derived from Latin approximatus, from proximus meaning very near and the prefix ad- (ad- before p becomes ap- by assimilation) meaning to.[1] Words like approximate, approximately and approximation are used especially in technical or scientific contexts. Unicode See also: Unicode mathematical operators Symbols used to denote items that are approximately equal are wavy or dotted equals signs.[7] U+223C ∼ TILDE OPERATOR: which is also sometimes used to indicate proportionality U+223D ∽ REVERSED TILDE: which is also sometimes used to indicate proportionality U+2245 ≅ APPROXIMATELY EQUAL TO: another combination of "=" and "≈", which is used to indicate isomorphism or congruence U+2246 ≆ APPROXIMATELY BUT NOT ACTUALLY EQUAL TO U+2247 ≇ NEITHER APPROXIMATELY NOR ACTUALLY EQUAL TO U+2248 ≈ ALMOST EQUAL TO U+2249 ≉ NOT ALMOST EQUAL TO U+224A ≊ ALMOST EQUAL OR EQUAL TO: yet another combination of "≈" and "=", used to indicate equivalence or approximate equivalence U+2250 ≐ APPROACHES THE LIMIT: which can be used to represent the approach of a variable, y, to a limit; like the common syntax, lim x → ∞ y (x) {\displaystyle \scriptstyle \lim _{x\to \infty }y(x)} = 0 [8] U+2252 ≒ APPROXIMATELY EQUAL TO OR THE IMAGE OF: which is used like "≈" in Japan, Taiwan, and Korea U+2253 ≓ IMAGE OF OR APPROXIMATELY EQUAL TO: a reversed variation of U+2252 ≒ U+225F ≟ QUESTIONED EQUAL TO U+2A85 ⪅ LESS THAN OR APPROXIMATELY EQUAL TO U+2A86 ⪆ GREATER THAN OR APPROXIMATELY EQUAL TO See also Approximation algorithm – Class of algorithms that find approximate solutions to optimization problems Approximate computing – Computation of nearly accurate results Approximate inequality Binomial approximation – Approximation of powers of some binomials Congruence relation – Equivalence relation in algebra Double tilde (disambiguation) – Various meanings of ~~ or ≈ Estimation – Process of finding an approximation, which is a value that is usable for some purpose, though uncertain Fermi problem – estimation problem in physics or engineering education Idealization (philosophy of science) – Process by which a scientific model is simplified by assuming strictly false facts to be true Least squares – Approximation method in statistics Linear approximation – Approximation of a function by its tangent line at a point Newton's method – Algorithm for finding a zero of a function Order of approximation – Expressions for approximation accuracy Rough set – Approximation of a mathematical set Runge–Kutta methods – Family of implicit and explicit iterative methods Small-angle approximation – Simplification of the basic trigonometric functions Successive-approximation ADC – Type of analog-digital conversion Taylor series – Mathematical approximation of a function Tolerance relation – Math relation that is reflexive and symmetric References ^ The Concise Oxford Dictionary, Eighth edition 1990, ISBN 0-19-861243-5 ^ Longman Dictionary of Contemporary English, Pearson Education Ltd 2009, ISBN 978 1 4082 1532 6 ^ "Numerical Computation Guide". In this case, the measurement is an approximation to the actual value. Solving a Simple Interest is based on practice, as much you will practice different types of questions that much will be familiar to Simple Interest problems. Are you looking for any of these? Archived from the original on 2016-04-06. Retrieved May 21, 2020. Diophantine approximation deals with approximations of real numbers by rational numbers. Related to approximation of functions is the asymptotic value of a function, i.e. the value as one or more of a function's parameters becomes arbitrarily large. An approximate model is used to make calculations easier. This article needs additional citations for verification. The history of science shows that earlier theories and laws can be approximations to some deeper set of laws. This is extremely difficult due to the complex interactions of the planets' gravitational effects on each other.[5] An approximate solution is effected by performing iterations. ≃ {\displaystyle \eqsim } (\eqsim), usually to indicate that two quantities are equal up to constants. Simple Interest is determined by multiplying the daily interest rate by the principal by the number of days that elapse between payments. This can be because there are factors in the real situation that are not included in the theory. Approximations might also be used if incomplete information prevents use of exact representations. Here, Smartkeeda, is providing Simple Interest Questions with PDF, in this Simple Interest PDF for Bank PO 2022, you will get different types of based Simple Interest Questions in the form of Quiz. Some problems in physics are too complex to solve by direct analysis, or progress could be limited by available analytical tools. Unsourced material may be challenged and removed.Find sources: "Approximation" – news · newspapers · books · scholar · JSTOR (April 2013) (Learn how and when to remove this template message) An approximation is anything that is intentionally similar but not exactly equal to something else. Retrieved 2021-11-22. ≠ {\displaystyle ot \approx } (ot\approx), usually to indicate that numbers are not approximately equal (1 ≠ {\displaystyle ot \approx } 2). Almost equal to.In UnicodeU+2245 ≅ APPROXIMATELY EQUAL TO (HTML ≅ · ≅, ≅) U+2248 ≈ ALMOST EQUAL TO (HTML ≈ · ≈, ≈, ≈)Different fromDifferent fromU+2242 ≂ MINUS TILDERelatedSee alsoU+2249 ≉ NOT ALMOST EQUAL TOU+003D = EQUALS SIGNU+2243 ≃ ASYMPTOTICALLY EQUAL TO See also: Glossary of mathematical symbols § Equality, equivalence and similarity The approximately equals sign, ≈, was introduced by British mathematician Alfred Greenhill.[6] LaTeX symbols Symbols used in LaTeX markup. In the first iteration, the planets' gravitational interactions are ignored, and the star is assumed to be fixed. ≈ 25 × 103 × 1.54 13 3-3 3 ×25×13×27×? Retrieved 2013-06-16. Take this Simplification quiz for SBI Clerk Pre 2021, SBI Clerk 2021, NIACL 2021 and other Bank and Insurance Clerk Exams for Free at Smartkeeda with Explanation. ≈ {\displaystyle \approx } (\approx), usually to indicate approximation between numbers, like π ≈ 3.14 {\displaystyle \pi \approx 3.14} . Numerical approximations sometimes result from using a small number of significant digits. Simulations of the motions of the planets and the star also yields more accurate solutions. 2006. The type of

approximation used depends on the available information, the degree of accuracy required, the sensitivity of the problem to this data, and the savings (usually in time and effort) that can be achieved by approximation. ^ "Mathematical Operators – Unicode" (PDF). PennWell. The predictions of a scientific theory can differ from actual measurements. Therefore, if you want to be master of Simple Interest Questions you must download this PDF with 50 problems. To solve Simplification and Approximation Questions for Banking and Insurance Exams like SBI, IBPS, NABARD & RBI Grade B, NIACL, and LIC, you need to brush up your calculation skills; you need to perform calculations faster and accurately than others. Under the correspondence principle, a new scientific theory, a new scientific theory should reproduce the results of older, well-established, theories in those domains where the old theories work.[4] The old theory becomes an approximation to the new theory. = 62.5 Hence, option C is correct. It is very important topic because in exam 5 to 10 questions is being asked in SBI Clerk pre and IBPS Clerk pre. Retrieved 2013-04-20. Mathematics Approximation theory is a branch of mathematics, a quantitative part of functional analysis. = $\{\displaystyle \simeq \}$ $(\simeq)$, usually to indicate asymptotic equivalence between functions, like $f (n) = 3 n 2$ $\{\displaystyle f(n)\simeq 3n^{2}\}$. ≈ $\{\displaystyle \cong \}$ $(\cong)$, usually to indicate congruence between figures, like Δ A B C ≅ Δ A ′ B ′ C ′ $\{\displaystyle \Delta ABC\cong \Delta A'B'C'\}$. Here is fraction based simplification for SBI Clerk Pre 2021, as you can see above: Power Based Simplification Questions for SBI Clerk Pre (10)2 + (7)3 + (243)1/5 = ?2 + 5 This type of simplification questions has also been seen in ibps clerk exams. Simple Interest Questions PDF for Bank PO Simple Interest Questions PDF Simple Interest Questions for Bank Exam Simple Interest Questions for Bank PO PDF Simple Interest Questions for Bank Clerk Simple Interest Questions PDF for Bank Exams If you are on Google with these above queries, it means you are at right place; we at Smartkeeda, will give you the solution of all above requirements in just one click without any distractions. Something roughly the same as something else For the sound change, see Lenition. ^ Encyclopædia Britannica ^ The three body problem ^ "Approximately Equal -- from Wolfram MathWorld". For example, the sum $(k/2)+(k/4)+(k/8)+...(k/2^n)$ is asymptotically equal to k. In science, approximation can refer to using a simpler process or model when the correct model is difficult to use. = $25×103×1.54$ 13 3–3 Explanation: $3 × 325$ $× ?$ Smartkeeda always concern about aspirants that's why they launched their portal Testzone for all Bank and SSC exams test series at low cost. p. 366. The most common versions of philosophy of science accept that empirical measurements are always approximations—they do not perfectly represent what is being measured. = $25×1000×$ 34 13 24 ? Under these circumstances, the theory is an approximation to reality. Simple Interest = $P × I × N$ Where, P=principle I=daily interest rate N=number of days between payments Simple Interest is one most important topic for bank exams, 1 to 2 questions have been seen in Bank PO Prelims exams. Here are the some examples of Simplification questions with solution for IBPS Clerk 2021 Ex.1. $3 × 325 × ?$ In everyday English, words such as roughly or around are used with a similar meaning.[2] It is often found abbreviated as approx. Media related to Approximation at Wikimedia Commons Retrieved from " If a more precise solution is desired, another iteration is then performed, using the positions and motions of the planets as identified in the first iteration, but adding a first-order gravity interaction from each planet on the others. Although approximation is most often applied to numbers, it is also frequently applied to such things as mathematical functions, shapes, and physical laws. At Smartkeeda you can attempt difficult level simplification problems with solution and download simplification PDF for free so you can practice offline too. Differences may also arise because of limitations in the measuring technique. On this page, you will get important Simple Interest PDF for SBI Clerk Mains, IBPS Clerk Mains, CET, LIC AAO, SBI PO Pre and IBPS PO Pre and IBPS RRB Officer Scale 1 Etc. However some known form may exist and may be able to represent the real form so that no significant deviation can be found.[example needed] It also is used when a number is not rational, such as the number π, which often is shortened to 3.14159, or 1.414 as the shortened form of √2. There are some root based simplification, Decimal Based Simplification as you see in above exercise. In this, Simplification quiz we will discuss how many types questions appear in SBI Clerk Pre Exam.

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