

SAT Practice Questions

Mr. Fobbs Period 3 & 6 Classes

1. If Lynn can type a page in p minutes, what piece of the page can she do in 5 minutes?
 - A. $5/p$
 - B. $p - 5$
 - C. $p + 5$
 - D. $p/5$
 - E. $1 - p + 5$
2. If Sally can paint a house in 4 hours, and John can paint the same house in 6 hour, how long will it take for both of them to paint the house together?
 - A. 2 hours and 24 minutes
 - B. 3 hours and 12 minutes
 - C. 3 hours and 44 minutes
 - D. 4 hours and 10 minutes
 - E. 4 hours and 33 minutes
3. Employees of a discount appliance store receive an additional 20% off of the lowest price on an item. If an employee purchases a dishwasher during a 15% off sale, how much will he pay if the dishwasher originally cost \$450?
 - A. \$280.90
 - B. \$287
 - C. \$292.50
 - D. \$306
 - E. \$333.89
4. The sales price of a car is \$12,590, which is 20% off the original price. What is the original price?
 - A. \$14,310.40
 - B. \$14,990.90
 - C. \$15,290.70
 - D. \$15,737.50
 - E. \$16,935.80
5. Solve the following equation for A : $2A/3 = 8 + 4A$
 - A. -2.4
 - B. 2.4
 - C. 1.3
 - D. -1.3
 - E. 0

6. If Leah is 6 years older than her sister, Sue, and John is 5 years older than Leah, and the total of their ages is 41. Then how old is Sue?

- A. 8
- B. 10
- C. 14
- D. 19
- E. 21

7. Alfred wants to invest \$4,000 at 6% simple interest rate for 5 years. How much interest will he receive?

- A. \$240
- B. \$480
- C. \$720
- D. \$960
- E. \$1,200

8. Jim is able to sell a hand-carved statue for \$670 which was a 35% profit over his cost. How much did the statue originally cost him?

- A. \$496.30
- B. \$512.40
- C. \$555.40
- D. \$574.90
- E. \$588.20

9. The city council has decided to add a 0.3% tax on motel and hotel rooms. If a traveler spends the night in a motel room that costs \$55 before taxes, how much will the city receive in taxes from him?

- A. 10 cents
- B. 11 cents
- C. 15 cents
- D. 17 cents
- E. 21 cents

10. A student receives his grade report from a local community college, but the GPA is smudged. He took the following classes: a 2 hour credit art, a 3 hour credit history, a 4 hour credit science course, a 3 hour credit mathematics course, and a 1 hour science lab. He received a "B" in the art class, an "A" in the history class, a "C" in the science class, a "B" in the mathematics class, and an "A" in the science lab. What was his GPA if the letter grades are based on a 4 point scale? (A=4, B=3, C=2, D=1, F=0)

- A. 2.7
- B. 2.8
- C. 3.0
- D. 3.1
- E. 3.2

11. Simon arrived at work at 8:15 A.M. and left work at 10:30 P.M. If Simon gets paid by the hour at a rate of \$10 and time and $\frac{1}{2}$ for any hours worked over 8 in a day. How much did Simon get paid?

- A. \$120.25
- B. \$160.75
- C. \$173.75
- D. \$180
- E. \$182.50

12. Grace has 16 jellybeans in her pocket. She has 8 red ones, 4 green ones, and 4 blue ones. What is the minimum number of jellybeans she must take out of her pocket to ensure that she has one of each color?

- A. 4
- B. 8
- C. 12
- D. 13
- E. 16

13. If $r = 5z$ then $15z = 3y$, then $r =$

- A. y
- B. $2y$
- C. $5y$
- D. $10y$
- E. $15y$

14. If 300 jellybeans cost you x dollars. How many jellybeans can you purchase for 50 cents at the same rate?

- A. $150/x$
- B. $150x$
- C. $6x$
- D. $1500/x$
- E. $600x$

15. Lee worked 22 hours this week and made \$132. If she works 15 hours next week at the same pay rate, how much will she make?

- A. \$57
- B. \$90
- C. \$104
- D. \$112
- E. \$122

16. If $8x + 5x + 2x + 4x = 114$, the $5x + 3 =$

- A. 12
- B. 25
- C. 33

- D. 47
- E. 86

17. You need to purchase a textbook for nursing school. The book cost \$80.00, and the sales tax where you are purchasing the book is 8.25%. You have \$100. How much change will you receive back?

- A. \$5.20
- B. \$7.35
- C. \$13.40
- D. \$19.95
- E. \$21.25

18. You purchase a car making a down payment of \$3,000 and 6 monthly payments of \$225. How much have you paid so far for the car?

- A. \$3225
- B. \$4350
- C. \$5375
- D. \$6550
- E. \$6398

19. Your supervisor instructs you to purchase 240 pens and 6 staplers for the nurse's station. Pens are purchased in sets of 6 for \$2.35 per pack. Staplers are sold in sets of 2 for 12.95. How much will purchasing these products cost?

- A. \$132.85
- B. \$145.75
- C. \$162.90
- D. \$225.25
- E. \$226.75

20. If $y = 3$, then $y^3(y^3 - y) =$

- A. 300
- B. 459
- C. 648
- D. 999
- E. 1099

General Practice Questions

1. An instrument store gives a 10% discount to all students off the original cost of an instrument. During a back to school sale an additional 15% is taken off the discounted price. Julie, a student at the local high school, purchases a flute for \$306. How much did it originally cost?

- A. \$325
- B. \$375
- C. \$400
- D. \$408
- E. \$425

2. If $y(x-1)=z$ then $x=$

- A. $y-z$
- B. $z/y + 1$
- C. $y(z-1)$
- D. $z(y-1)$
- E. $1-zy$

3. Which of the following values is NOT equal to $34(58+9)$?

- A. 34×67
- B. $58(34+9)$
- C. $34 \times 58 + 34 \times 9$
- D. $1,972 + 306$
- E. $(9 + 58) 34$

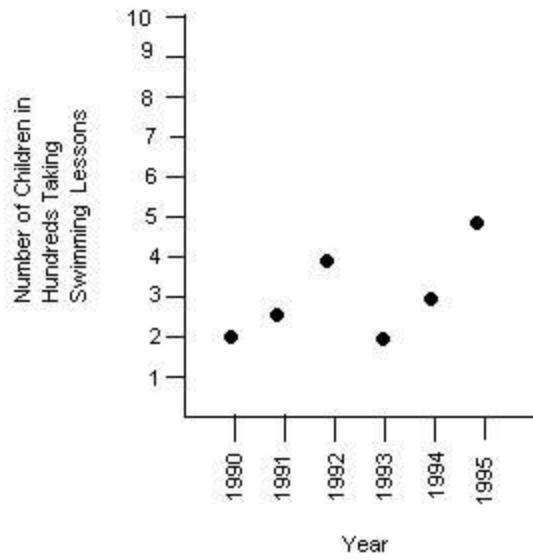
4. Two angles of a triangle measure 15° and 85° . What is the measure for the third angle?

- A. 50°
- B. 55°
- C. 60°
- D. 80°
- E. 90°

5. If 5 ounces is equal to 140 grams, then 2 pounds of ground meat is equal to how many grams?

- A. 863
- B. 878
- C. 896
- D. 915
- E. 932

6. Which year did the most children take swimming lessons?



- A. 1990
- B. 1991
- C. 1992
- D. 1994
- E. 1995

7. Between which year did the largest decrease in children taking swimming lessons occur?

- A. 1990-1991
- B. 1991-1992
- C. 1992-1993
- D. 1993-1994
- E. 1994-1995

8. What was the average number of children taking swim lessons from 1990 to 1995?

- A. 250
- B. 308
- C. 385
- D. 450
- E. 1,850

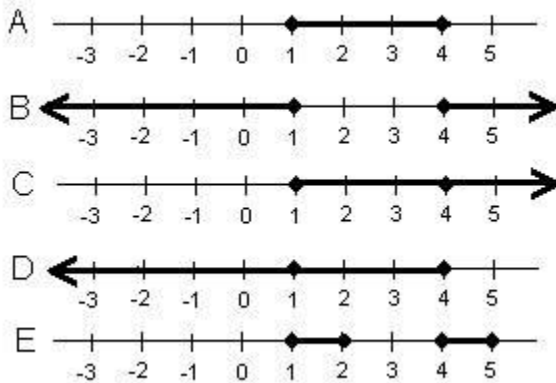
9. Which of the following is equal to 5.93×10^{-2} ?

- A. 0.0593
- B. 0.00593
- C. 593
- D. 5930
- E. 59300

10. On a Map, 1 inch represents 20 miles. The distance between 2 towns is $6 \frac{1}{5}$ inches. How many miles are actually between the two towns?

- A. 65 miles
- B. 84 miles
- C. 124 miles
- D. 138 miles
- E. 145 miles

11. Which of the following is a correct graph of $x > 1$, $x < 4$?



- A. Line A
- B. Line B
- C. Line C
- D. Line D
- E. Line E

12. How many cubed pieces of fudge that are 3 inches on an edge can be packed into a Christmas tin that is 9 inches deep by 12 inches wide by 8 inches high with the lid still being able to be closed?

- A. 18
- B. 24
- C. 32
- D. 36
- E. 43

13. Sarah is twice as old as her youngest brother. If the difference between their ages is 15 years. How old is her youngest brother?

- A. 10
- B. 15
- C. 20
- D. 25
- E. 30

14. Which of the following fractions is equal to $\frac{5}{6}$?

- A. $\frac{20}{30}$
- B. $\frac{15}{24}$
- C. $\frac{25}{30}$
- D. $\frac{40}{54}$
- E. $\frac{2}{7}$

15. What will it cost to tile a kitchen floor that is 12 feet wide by 20 feet long if the tile cost \$8.91 per square yard?

- A. \$224.51
- B. \$237.60
- C. \$246.55
- D. \$271.38
- E. \$282.32

16. In a writing competition, the first place winner receives $\frac{1}{2}$ of the prize money. The second runner up receives $\frac{1}{4}$ of what the winner won. What was the total amount of prize money distributed if the winner receives \$6,000?

- A. \$6,000
- B. \$8,500
- C. \$12,000
- D. \$15,000
- E. \$18,500

17. You are lying 120 ft away from a tree that is 50 feet tall. You look up at the top of the tree. Approximately how far is your hear from the top of the tree in a straight line?

- A. 50 feet
- B. 75 feet
- C. 120 feet
- D. 130 feet
- E. 150 feet

18. A cyclist bikes x distance at 10 miles per hour and returns over the same path at 8 miles per hour. What is the cyclist's average rate for the round trip in miles per hour?

- A. 8.1
- B. 8.3
- C. 8.6
- D. 8.9
- E. 9.0

19. If edging cost \$2.32 per 12-inch stone, and you want a double layer of edging around your flower bed that is 6 yards by 1 yard. How much will edging you flower bed cost?

- A. \$32.48
- B. \$64.96
- C. \$97.44
- D. \$129.92
- E. \$194.88

20. If $3x=6x-15$ then $x + 8=$

- A. 5
- B. 10
- C. 11
- D. 12
- E. 13

21. The number of milliliters in 1 liter is

- A. 10,000
- B. 1,000
- C. 0.1
- D. 0.01
- E. 0.001

22. The cost to ride on a ferry is \$5.00 per vehicle and driver with an additional cost of 50 cents per passenger. If the charge to get on the ferry is \$6.50, how many people were in the vehicle?

- A. 1
- B. 2
- C. 3
- D. 4
- E. 5

23. What is $\frac{1}{9}$ of 9?

- A. $\frac{1}{9}$
- B. 0
- C. 1
- D. 2
- E. 3

24. In his pocket, a boy has 3 red marbles, 4 blue marbles, and 4 green marbles. How many will he have to take out of his pocket to ensure that he has taken out at least one of each color?

- A. 3
- B. 7
- C. 8
- D. 9
- E. 11

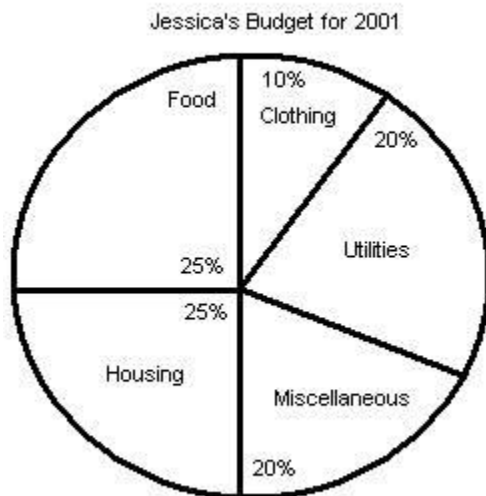
25. Which fraction is equal to 0.20%?

- A. $\frac{1}{20}$
- B. $\frac{1}{40}$
- C. $\frac{1}{50}$
- D. $\frac{1}{400}$
- E. $\frac{1}{500}$

26. Find the missing term in the following sequence: 4, 9, 19, __, 79

- A. 36
- B. 37
- C. 38
- D. 39
- E. 40

27. How much money did Jessica's budget allow for housing in April of 2001?



Jessica's Monthly Earnings from January 2001 to June 2001

January	\$2578
February	\$2432
March	\$2668
April	\$2490
May	\$2622
June	\$2555

- A. \$617.80
- B. \$620.92
- C. \$622.50
- D. \$626.38
- E. \$633.20

28. What was the average amount of money that Jessica's budget allowed for clothing the first six months of 2001?

- A. \$249.90
- B. \$250.40

- C. \$251.32
- D. \$253.33
- E. \$255.75

29. If Jessica only spent 20% instead of the 25% allotment for food in May of 2001, how much did she save?

- A. \$131.10
- B. \$144.30
- C. \$148.32
- D. \$152.22
- E. \$153.33

30. Jonathan can type a 20 page document in 40 minutes, Susan can type it in 30 minutes, and Jack can type it in 24 minutes. Working together, how much time will it take them to type the same document?

- A. 5 minutes
- B. 10 minutes
- C. 15 minutes
- D. 18 minutes
- E. 20 minutes

31. Of the following fractions, which is less than $\frac{2}{3}$?

- A. $\frac{7}{8}$
- B. $\frac{5}{6}$
- C. $\frac{3}{4}$
- D. $\frac{3}{5}$
- E. $\frac{5}{7}$

32. A hockey team won 6 games and lost 8. What is the ratio of wins to number of games?

- A. $\frac{6}{8}$
- B. $\frac{8}{6}$
- C. $\frac{3}{7}$
- D. $\frac{8}{14}$
- E. $\frac{6}{7}$

33. Sue receives a base salary of \$90 weekly plus a 12% commission on all sales. Sue had \$3,000 in sales this week. How much did she make total?

- A. \$375
- B. \$450
- C. \$480
- D. \$510
- E. \$525

34. If the perimeter of a rectangular house is $25\frac{1}{3}$ yards, and the length is 22 feet. What is the width?

- A. 16 feet
- B. 35 feet
- C. 37 feet
- D. 40 feet
- E. 42 feet

35. Jimmy made a 15% profit on the sale of a custom designed boat, and the original cost of the boat was \$15,000. The boat sold for how much?

- A. \$17,250.00
- B. \$16,540.44
- C. \$16,230.34
- D. \$15,980.55
- E. \$15,870.88

36. A recent study showed that an increase in body weight by 10 kilograms resulted in a 0.15% increase in heart disease. What fraction is equal to 0.15%?

- A. $\frac{3}{2000}$
- B. $\frac{2}{750}$
- C. $\frac{7}{4000}$
- D. $\frac{5}{3462}$
- E. $\frac{1}{500}$

37. $6.334 \times 10^4 =$

- A. 0.0006334
- B. 0.06334
- C. 6334
- D. 63340
- E. 633400

38. If $3x + 5x = -8$, then $x + 1 =$

- A. -2
- B. -1
- C. 0
- D. 1
- E. 2

39. Two angle in a triangle equal 120° . What is the measure of the third angle?

- A. 60°
- B. 70°
- C. 80°
- D. 90°
- E. 120°

40. Which of the following would be an appropriate unit to measure sugar for a cookie recipe?

- A. liters
- B. cups
- C. quarts
- D. kilograms
- E. pounds

SAT EXPONENT PROBLEMS

1. 10^4 is not equal to which of the following?

- A. 100,000
- B. 0.1×10^5
- C. $10 \times 10 \times 10 \times 10$
- D. $10^2 \times 10^2$
- E. 10,000

2. Multiply 10^4 by 10^2

- A. 10^8
- B. 10^2
- C. 10^6
- D. 10^{-2}
- E. 10^3

3. Divide x^5 by x^2

- A. x^7
- B. x^4
- C. x^{10}
- D. x^3
- E. $x^{2.5}$

4. Find 8.23×10^9

- A. 0.00000000823
- B. 0.00000823
- C. 8.23
- D. 8230000000
- E. 823000000000

5. 83,000 equals:

- A. 83.0×10^4
- B. 8.3×10^4
- C. 8.3×10^3
- D. 83.0×10^5
- E. 83.0×10^2

6. .00875 equals:

- A. 8.75×10^{-2}
- B. 8.75×10^{-3}

C. 8.75×10^{-4}

D. 87.5×10^{-3}

E. 875×10^{-4}

SAT Percent Practice Questions

1. If a discount of 20% off the retail price of a desk saves Mark \$45, how much did he pay for the desk?
 - A. \$145
 - B. \$160
 - C. \$180
 - D. \$210
 - E. \$215

2. A customer pays \$1,100 in state taxes on a newly purchased car. What is the value of the car if state taxes are 8.9% of the value?
 - A. \$9,765.45
 - B. \$10,876.90
 - C. \$12,359.55
 - D. \$14,345.48
 - E. \$15,745.45

3. How many years does Steven need to invest his \$3,000 at 7% to earn \$210 in simple interest?
 - A. 1 year
 - B. 2 years
 - C. 3 years
 - D. 4 years
 - E. 5 years

4. Sabrina's boss states that she will increase Sabrina's salary from \$12,000 to \$14,000 per year if she enrolls in business courses at a local community college. What percent increase in salary will result from Sabrina taking the business courses?
 - A. 15%
 - B. 16.7%
 - C. 17.2%
 - D. 85%
 - E. 117%

5. 35% of what number is 70?
 - A. 100
 - B. 110
 - C. 150
 - D. 175
 - E. 200

6. What number is 5% of 2000?

- A. 50
- B. 100
- C. 150
- D. 200
- E. 250

7. What percent of 90 is 27?

- A. 15%
- B. 20%
- C. 30%
- D. 33%
- E. 41%

8. Jim works for \$15.50 per hour for a health care facility. He is supposed to get a 75 cent per hour raise at one year of service. What will his percent increase in hourly pay be?

- A. 2.7%
- B. 3.3%
- C. 133%
- D. 4.8%
- E. 105%

9. If 45 is 120% of a number, what is 80% of the same number?

- A. 30
- B. 32
- C. 36
- D. 38
- E. 41

10. How long will Lucy have to wait before her \$2,500 invested at 6% earns \$600 in simple interest?

- A. 2 years
- B. 3 years
- C. 4 years
- D. 5 years
- E. 6 years

11. What is 35% of a number if 12 is 15% of a number?

- A. 5
- B. 12
- C. 28
- D. 33
- E. 62

12. A computer is on sale for \$1600, which is a 20% discount off the regular price. What is the regular price?

- A. \$1800
- B. \$1900
- C. \$2000
- D. \$2100
- E. \$2200

13. A car dealer sells a SUV for \$39,000, which represents a 25% markup over the dealer's cost. What was the cost of the SUV to the dealer?

- A. \$29,250
- B. \$31,200
- C. \$32,500
- D. \$33,800
- E. \$33,999

14. After having to pay increased income taxes this year, Edmond has to sell his BMW. Edmond bought the car for \$49,000, but he sold it for a 20% loss. What did Edmond sell the car for?

- A. \$24,200
- B. \$28,900
- C. \$35,600
- D. \$37,300
- E. \$39,200

15. At a company fish fry, $\frac{1}{2}$ in attendance are employees. Employees' spouses are $\frac{1}{3}$ of the attendance. What is the percentage of the people in attendance who are not employees or employee spouses?

- A. 10.5%
- B. 16.7%
- C. 25%
- D. 32.3%
- E. 38%

16. If 6 is 24% of a number, what is 40% of the same number

- A. 8
- B. 10
- C. 15
- D. 20
- E. 25

17. 25% of 400 =

- A. 100
- B. 200
- C. 800
- D. 10,000
- E. 12,000

18. 22% of \$900 =

- A. 90
- B. 198
- C. 250
- D. 325
- E. 375

19. Which of the following percentages is equal to 0.45?

- A. 0.045%
- B. 0.45%
- C. 4.5%
- D. 45%
- E. 0.0045%

20. Which of these percentages equals 1.25?

- A. 0.125%
- B. 12.5%
- C. 125%
- D. 1250%
- E. 1250.5%

Measurement Practice Questions

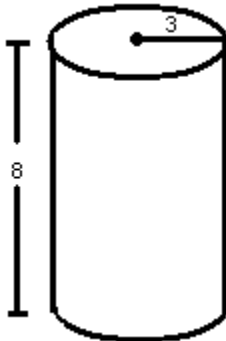
1. What will it cost to carpet a room with indoor/outdoor carpet if the room is 10 feet wide and 12 feet long? The carpet costs 12.51 per square yard.

- A. \$166.80
- B. \$175.90
- C. \$184.30
- D. \$189.90
- E. \$192.20

2. If the perimeter of a rectangular house is 44 yards, and the length is 36 feet, what is the width of the house?

- A. 10 yards
- B. 18 yards
- C. 28 feet
- D. 32 feet
- E. 36 yards

3. What is the volume of the following cylinder?



- A. 210.91
- B. 226.20
- C. 75.36
- D. 904.32
- E. 28.26

4. What is the volume of a cube whose width is 5 inches?

- A. 15 cubic inches
- B. 25 cubic inches
- C. 64 cubic inches
- D. 100 cubic inches
- E. 125 cubic inches

5. Sally has three pieces of material. The first piece is 1 yd. 2 ft. 6 in. long, the second piece is 2 yd. 1 ft. 5 in long, and the third piece is 4 yd. 2ft. 8in long. How much material does Sally have?

- A. 7 yd. 1 ft. 8 in.
- B. 8 yd. 4 ft. 4 in.
- C. 8 yd. 11 in.
- D. 9 yd. 7 in.
- E. 10 yd.

6. A can's diameter is 3 inches, and its height is 8 inches. What is the volume of the can?

- A. 50.30
- B. 56.55
- C. 75.68
- D. 113.04
- E. 226.08

7. If the area of a square flowerbed is 16 square feet, then how many feet is the perimeter of the flowerbed?

- A. 4
- B. 12
- C. 16
- D. 20
- E. 24

8. Of the following units which would be more likely used to measure the amount of water in a bathtub?

- A. kilograms
- B. liters
- C. milliliters
- D. centigrams
- E. volts

9. If a match box is 0.17 feet long, what is its length in inches the most closely comparable to the following?

- A. $5 \frac{1}{16}$ inch highlighter
- B. $3 \frac{1}{8}$ inch jewelry box
- C. $2 \frac{3}{4}$ inch lipstick
- D. $2 \frac{3}{16}$ inch staple remover
- E. $4 \frac{1}{2}$ inch calculator

10. What is the cost in dollars to steam clean a room W yards wide and L yards long if the steam cleaners charge 10 cents per square foot?

- A. $0.9WL$
- B. $0.3WL$
- C. $0.1WL$

- D. 9WL
- E. 3WL

11. Once inch equals 2.54 cm, How many centimeters tall is a 76- inch man?

- A. 20 cm
- B. 29.92 cm
- C. 193.04 cm
- D. 300.04 cm
- E. 593.04 cm

12. A room measures 11 ft x 12 ft x 9 ft. What is the volume?

- A. 1188 ft³
- B. 32 ft³
- C. 120 ft³
- D. 1300 ft³
- E. 1350 ft³

13. A vitamin's expiration date has passed. It was suppose to contain 500 mg of Calcium, but it has lost 325 mg of Calcium. How many mg of Calcium is left?

- A. 135 mg
- B. 175 mg
- C. 185 mg
- D. 200 mg
- E. 220 mg

14. You have orders to give a patient 20 mg of a certain medication. The medication is stored 4 mg per 5-mL dose. How many milliliters will need to be given?

- A. 15 mL
- B. 20 mL
- C. 25 mL
- D. 30 mL
- E. 35 mL

15. You need exactly a 1680 ft³ aquarium for your fish. At the pet store you see four choices of aquariums, but the volume is not listed. The length, width, and height are listed on the box. Which of the following aquariums would fit your needs?

- A. 12 ft x 12 ft x 12 ft
- B. 13 ft x 15 ft x 16 ft
- C. 14 ft x 20 ft x 6 ft
- D. 15 ft x 16 ft x 12 ft
- E. 15 ft x 12 ft x 12 ft

16. One slice of bread is 80 calorie. Approximately how many calories are in 2 ½ slices of bread?

- A. 140 calories
- B. 200 calories
- C. 220 calories
- D. 240 calories
- E. 260 calories