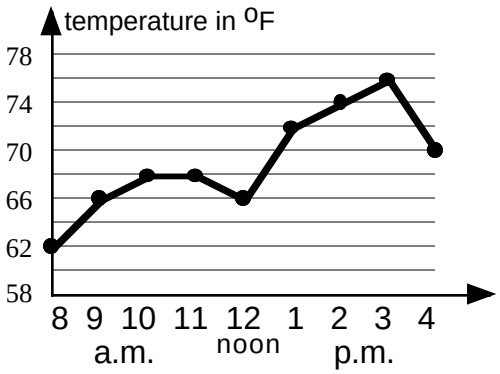
__ 1. $12.34 \div 0.01$ =
(A) 0 .1234 (B) 1.234 (C) 12.34 (D) 123.4 (E) 1234

__ 2. The portion of the interior of the rectangle on the right which is shaded is 
(A) 25% (B) 35% (C) 40% (D) 50% (E) 60%

__ 3. $10^2 \times 10^3$ =
(A) 100 (B) 1000 (C) 10,000 (D) 100,000 (E) 1,000,000

__ 4. The Roosikrantsi Restaurant in Tallinn, Estonia, is open from 10 am to 11 pm, Mondays through Fridays, and from noon to 11 pm on Saturdays and Sundays. The total number of hours it is open in one week is
(A) 72 (B) 77 (C) 87 (D) 99 (E) 113

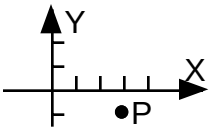
__ 5. According to the graph, the biggest increase in temperature occurred between:
(A) 8 and 9 o'clock (B) 10 and 11 o'clock
(C) 12 and 1 o'clock (D) 1 and 2 o'clock
(E) 2 and 3 o'clock



__ 6. If the temperature continues to fall at the same rate as it did between 3 and 4 o'clock, it will fall to 40° F at
(A) 6 o'clock (B) 7 o'clock (C) 8 o'clock
(D) 9 o'clock (E) 10 o'clock

__ 7. $-3 \times (-5 + 7)$ =
(A) -36 (B) 36 (C) -1 (D) -6 (E) 6

__ 8. The coordinates of the point P on the right are
(A) (3,-1) (B) (-1,3) (C) (3,1)
(D) (1,3) (E) (1,-3)



__ 9. $\left(-2\frac{1}{2}\right)^2 \times \left(\frac{2}{5}\right)^2 + \left(-\frac{1}{4}\right)^2 =$
(A) $-\frac{15}{16}$ (B) $-\frac{39}{400}$ (C) $\frac{1}{16}$ (D) $\frac{89}{400}$ (E) $1\frac{1}{16}$

__ 10. A $549.95 television set is being advertised at a 40% discount. Its sale price, to the nearest cent, is
(A) $219.98 (B) $329.97 (C) $343.72 (D) $392.82 (E) $1374.88

__ 11. The second Tuesday of a certain month falls on a date which is a one digit number, and is a multiple of 2. The date of the fourth Thursday of that month will be
(A) 22 (B) 23 (C) 24 (D) 25 (E) 26

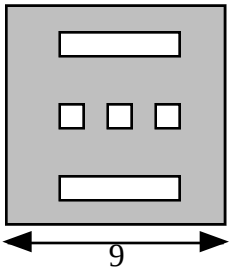
__ 12. If two angles in a right triangle have the same measure, then this measure is
(A) 30^o (B) 45^o (C) 60^o (D) 90^o (E) 135^o

__ 13. As of October 24, the exchange rate was 1.6375 Deutsch marks for one U.S. dollar. A fair trade for $5400 at that time was approximately how many Deutsch marks?
(A) 8842.5 (B) 3297.7 (C) 5401.6 (D) 5398.4 (E) 3442.5

__ 14. Rounded to two decimal places,
$\sqrt{10} + \sqrt{10} + \sqrt{10} + \sqrt{10} + \sqrt{10} + \sqrt{10} + \sqrt{10} - \sqrt{70} =$
(A) 0.00 (B) 10.61 (C) 12.92 (D) 13.77 (E) 16.93

__ 15. A single roll of lifesavers mints weighs about
(A) 21 milligrams (B) 21 ounces (C) 21 kilograms (D) 21 pounds (E) 21 grams

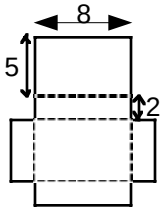
__ 16. If all the shapes in the figure on the right are squares except for the two 1 by 5 rectangles, and if the small squares are 1 by 1, then the shaded area is
(A) 23 (B) 32 (C) 45 (D) 68 (E) 96



__ 17. A circular wheel that is 2 feet high rolls far enough for one complete rotation. The distance traveled by the wheel is approximately
(A) 2 ft (B) 4 ft (C) 6 ft (D) 8 ft (E) 10 ft

__ 18. Seven fish were caught. Their lengths, in inches, were 12.7, 15.2, 11.4, 14.6, 12.7, 16.1, and 13.2. The median length of these fish, in inches, was
(A) 12.7 (B) 13.2 (C) 13.5 (D) 13.7 (E) 14.6

__ 19. If the figure on the right is cut from cardboard and folded along the dashed lines to form a rectangular box, its volume will be:
(A) 52 (B) 80 (C) 86 (D) 116 (E) 140



__ 20. At its special sale, the music store sold one third of its tapes in the morning. It sold one fourth of the remaining tapes in the afternoon. At the end of the day, the fraction of its original tapes that had been sold was

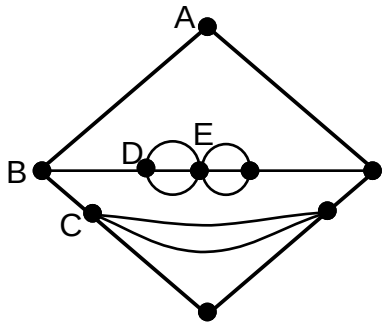
(A) $\frac{5}{12}$ (B) $\frac{1}{2}$ (C) $\frac{7}{12}$ (D) $\frac{2}{3}$ (E) $\frac{3}{4}$

__ 21. A class picnic has a boy - girl ratio of 5:3 until 3 more girls come, changing the ratio to 10:7. The total number of students at the picnic now is

(A) 17 (B) 34 (C) 51 (D) 68 (E) 85

__ 22. It is possible to draw the complete figure on the right without lifting your pencil and without retracing any part of the figure, if you start drawing at point

(A) A (B) B (C) C (D) D (E) E

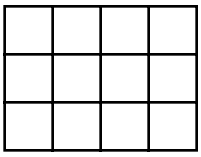


__ 23. The fiftieth digit to the right of the decimal point in the decimal expansion of the number $\frac{39}{111}$ is

(A) 0 (B) 1 (C) 3 (D) 5 (E) 9

__ 24. Find the total number of rectangles, of all sizes, in the figure on the right. (Remember, squares are rectangles.)

(A) 16 (B) 36 (C) 43 (D) 58 (E) 60



__ 25. The point of a dart lands at some point inside the rectangle shown. What is the probability that the y-coordinate of that point is greater than its x-coordinate? (The coordinates do **not** have to be integers.)

(A) 1/3 (B) 3/8 (C) 3/7 (D) 3/5 (E) 3/4