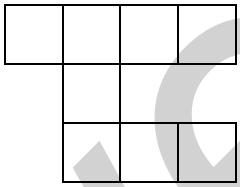
1. It is now 10:05 AM. What time will it be 237 minutes from now?	1. 2:02 PM
2. Half of a third of a number is 18. What is the number?	2. 108
3. Dividing 133 by 29 we find a quotient and a remainder. Find the <u>sum</u> of the quotient and the remainder.	3. 21
4. A house has 4 rooms. One of the rooms has been split into 3 separate rooms. How many rooms are in the house now?	4. 6 rooms
5. Simplify $\frac{3}{-\frac{4}{3}}$	5. -2.25 or $-\frac{9}{4}$
6. Find the smallest whole number that is larger than $1\frac{1}{2}+2\frac{1}{3}+3\frac{1}{4}$	6. 8
7. What is the value of the expression: $\frac{1}{7}\times\frac{2}{5}+\frac{1}{7}\times\frac{3}{5}$?	7. 0.143 or $\frac{1}{7}$
8. Eight squares are connected as shown, the area of every square is 9 square inches, find the perimeter of the figure. 	8. 54 in
9. Jenny made four purchases. She purchased 5 pineapples at \$3.39 each, 9 bags of peanuts at \$1.51 each, 5 cans of soup at \$0.61 each, and 9 candy bars at \$.49 each. How much did she spend?	9. \$38.00
10. If 180% of a number is equal to 210% of 54, what is the number?	10. 63
11. You fill a jug with water to $\frac{1}{2}$ of its capacity. You then remove $\frac{1}{3}$ of the water. You are left with 0.5 gallons of water. What is the capacity of the jug in gallons?	11. 3 gals
12. If *a* and *b* are both integers and $300 \le a \le 400$ and $400 \le b \le 1200$, then the largest value of $\frac{b}{a}$ is	12. 3
13. Solve for a: $2\times a+2+3\times a+3=40$	13. a = 7
14. How many odd numbers are there between 20 and 100?	14. 40 numbers
15. Solve for k: $77\div\left(77\div\left(k-77\right)\right)=2$	15. k =79
16. The sum of three consecutive natural numbers is 21. What is the <u>first</u> number?	16. 6

17. A ball was thrown straight up into the air. The table below shows the distance the ball was from the ground at various times after it was thrown. How high was the ball 24 seconds after it was thrown? Time (sec): 0, 4, 8, 12, 16, 20, 24, 28, 32 Height (ft): 0, 215, 383, 481, 517, 481, 383, 215, 0	17. 383 ft
18. In reference to the table above, what was the total distance the ball travelled in the first 24 seconds, if the maximum height was reached at 16 seconds?	18. 651 ft
19. Solve for x: $780-\left(780-\left(780-\left(780-x\right)\right)\right)=432$.	19. $x = 432$
20. Express $\dfrac{1}{2+\dfrac{1}{2+\dfrac{1}{2}}}$ as a simple fraction.	20. $\dfrac{5}{12}$
21. $1.75m+1225cm+0.01km$ is equal to how many meters?	21. 24 meters
22. For a two digit number ab, $a+a=b$ and $a+b=12$. Find the number ab (not $a\times b$).	22. 48
23. A rectangle has sides $3\times a$ long and $\dfrac{a}{3}$ wide. If $4\times a=40$ inches, find the area of the rectangle in square inches.	23. 100 in^2
24. Evaluate: $3^3\times5^0\times7^{-2}=$	24. 0.551 or $\dfrac{27}{49}$
25. If $\lvert a-3\rvert+\lvert b-4\rvert=0$, find a^2-b^2.	25. -7
26. The radii of the two circles are 5 in and 3 in. What is the area of the dark part of the figure? Express your answer as a multiple of π. 	26. 16π
27. Express the repeating decimal number $0.\overline{12}$ as a simple fraction.	27. $\dfrac{4}{33}$
28. Find a such that $2\times a^2=200$.	28. $a=\pm10$
29. If you repeatedly toss two coins into the air simultaneously, what proportion of the tosses would you expect to come up a head on one coin and a tail on the other coin?	29. 0.500 or $\dfrac{1}{2}$ or 50% or 1:2
30. A rectangle has an area of 24 in^2 and its dimensions are natural numbers. If the length is increased by 2 in and the width is decreased by 1 in, the area remains the same. What are the dimensions of the rectangle?	30. l = 6 w = 4
Tie Breaker Find a proper fraction strictly between $\dfrac{11}{47}$ and $\dfrac{24}{49}$ with the smallest possible denominator.	31. **Tie Breaker** $\dfrac{1}{3}$