

Daily Dollar Questions 2017

Level 3

For Year 5, and Year 6 students.

Curriculum level 3.



What to do.

For students.

1. You may work in pairs or on your own and your teacher or parent can help you.
2. Do the questions.
3. If you are right you will get the dollar value for each question.
4. There are usually 5 questions each day.
5. Each day's questions total \$100 in value.
5. Your teacher will tell you the answers and then you can work out how many dollars you have earned for the day.
6. Add the dollars you have earned each day in the Daily Dollar Questions and get a total which you can compare at the end of the week with others in your class.
7. Perhaps your teacher may award a prize for the highest totals for the week!
8. Good luck !



2017

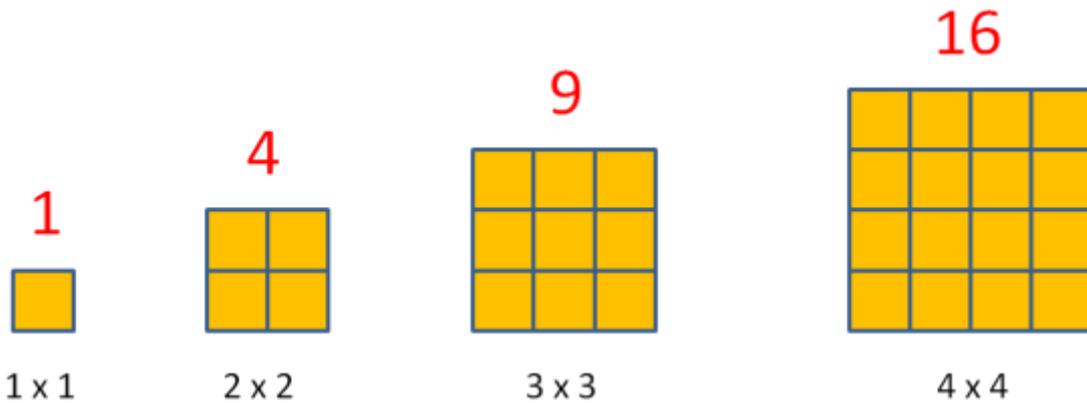
Daily Dollar Questions

Level 3.

Wednesday:

Square Numbers.

The 10 Dollar Question.



1, 4, 9, 16 are square numbers.

- (a) Write down what the next four square numbers are.
- (b) How many square numbers are less than 101 ?

The 20 Dollar Question.

Draw the multiplication grid into your maths note book.

Now shade in all the square numbers.

What do you notice?

x	1	2	3	4	5	6	7	8	9	10
1	1	2	3	4	5	6	7	8	9	10
2	2	4	6	8	10	12	14	16	18	20
3	3	6	9	12	15	18	21	24	27	30
4	4	8	12	16	20	24	28	32	36	40
5	5	10	15	20	25	30	35	40	45	50
6	6	12	18	24	30	36	42	48	54	60
7	7	14	21	28	35	42	49	56	63	70
8	8	16	24	32	40	48	56	64	72	80
9	9	18	27	36	45	54	63	72	81	90
10	10	20	30	40	50	60	70	80	90	100

The 30 Dollar Question.

$$1 =$$

$$1 + 2 + 1 =$$

$$1 + 2 + 3 + 2 + 1 =$$

$$1 + 2 + 3 + 4 + 3 + 2 + 1 =$$

$$1 + 2 + 3 + 4 + 5 + 4 + 3 + 2 + 1 =$$

$$1 + 2 + 3 + 4 + 5 + 6 + 5 + 4 + 3 + 2 + 1 =$$

$$1 + 2 + 3 + 4 + 5 + 6 + 7 + 6 + 5 + 4 + 3 + 2 + 1 =$$

$$1 + 2 + 3 + 4 + 5 + 6 + 7 + 8 + 7 + 6 + 5 + 4 + 3 + 2 + 1 =$$

$$1 + 2 + 3 + 4 + 5 + 6 + 7 + 8 + 9 + 8 + 7 + 6 + 5 + 4 + 3 + 2 + 1 =$$

- (a) Total each of these rows. What do you notice?
- (b) What will be the total of the tenth row?

The 40 Dollar Question.

The Inch Worm song from an old Danny Kaye movie about "Hans Christian Andersen" has a scene where children are singing what has become a popular song.



<https://www.youtube.com/watch?v=fXi3bjKowJU>

*"Two and two are four
Four and four are eight
Eight and eight are sixteen
Sixteen and sixteen are thirty-two"*

- (a) How many square numbers at the end of each line are mentioned in this song the children are singing ?
- (b) If the song continued with its arithmetic what would be the next two square numbers ?



<https://www.youtube.com/watch?v=W0IQ0bdcjfY>