Class 8 Maths

<u>Facts</u>

You need to practise your timetables and other number facts regularly, as we do in school.

You can use Times Table Rock Star like we do in school. The link is

- https://play.ttrockstars.com/auth

You can also use Numbots which uses the same login as Times Table Rock Star

- https://play.numbots.com/#/account/search-school

<u>Arithmetic</u>

Here are some questions which recap everything that we have learnt this year. Rea the questions carefully and answer them.

Number and Place Value

Count forwards and backwards in 4, 8, 50 and 100.

1. Continue the sequences:

a. 4, 8, 12, 16, _____, _____, _____

b. 24, 32, 40, _____, _____, _____

c. 900, 800, 700, _____, _____, _____

d. 150, 200, 250, _____, _____, _____

Find 10 or 100 more or less than a given number.

2. What number is 10 more than 73?

_____

3. What number is 100 less than 340?

_____

Recognise the place value of each digit in a three-digit number.

4. Underline the tens digit in the following numbers:

   562   584   703   821

Compare and order numbers up to 1000.

5. Write a number so that each sentence makes sense:

a. 345 < _____

b. 294 > _____

c. 833 = _____

6. Order the following numbers from largest to smallest:

   77   86   78   84   74

Largest _____ Smallest

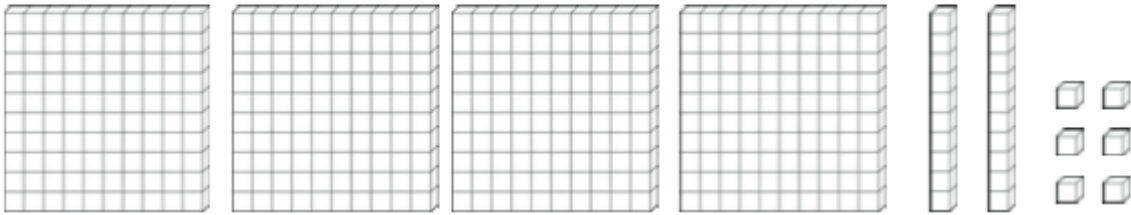7. Order these numbers from smallest to largest:

   289   298   258   247   293

Smallest _____ Largest

Identify, represent and estimate numbers using different representations.

8. What number is shown:

_____

Read and write numbers up to 1000 in numerals and in words.
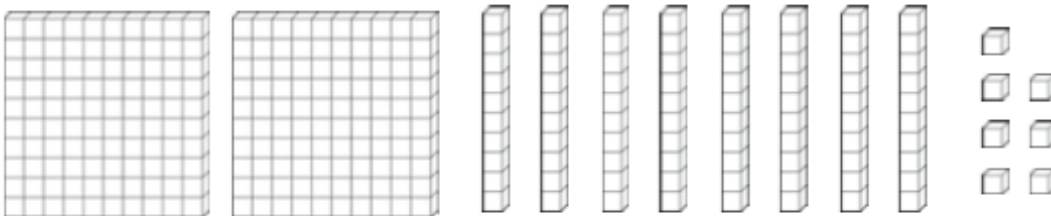
9. Write 357 in words.

_____

10. Write two hundred and seventy-four in numerals.

_____

Solve number problems and practical problems.

11. What needs to be added to the following number to make 234?

   204 + _____

12. Cross out the Dienes that are not needed to represent the number 162.

Addition and Subtraction

Add and subtract numbers mentally.

13. Calculate the following:

a. 286 + 4 = _____

b. 256 - 30 = _____

c. 172 + 300 = _____

Add and subtract numbers with up to three digits using formal written methods.

14. Calculate the following:

a.

	6	7	8
+	3	2	3

b.

	6	8	3
−	2	5	1

c.

	3	6	4
−	1	2	9

Estimate the answer to a calculation and use the inverse operation to check.

15. Use the inverse to check the following calculations. Circle 'Correct' or 'Incorrect':

a. 328 + 126 = 456 _____ Correct/Incorrect

b. 267 − 138 = 129 _____ Correct/Incorrect

Solve problems including missing numbers.

16. Fill in the missing numbers to make these calculations correct:

a.

4	7	2	+	3	6		=		3	6

b. There are 460 people on a plane. 125 of the passengers are British, 104 are American and the rest are French. How many French people are on board the plane?

_____

Multiplication and Division

Recall and use multiplication and division facts for the 3, 4 and 8 times tables.

17. Use your knowledge of the 3, 4 and 8 times tables to complete these calculations:

a. _____ × 4 = 32

c. 8 × 6 = _____

e. _____ ÷ 12 = 4

b. 3 × _____ = 27

d. 33 ÷ _____ = 3

f. 40 ÷ _____ = 8

Use known facts to solve multiplication and division problems including two-digit multiplied by one-digit numbers.

18. Partition these numbers or use a column method to calculate these:

a. 24 × 3 = _____

c. 56 ÷ 4 = _____

b. 18 × 4 = _____

d. 48 ÷ 3 = _____

Solve problems including missing numbers.

19. Find the missing numbers to complete the following calculations:

a.
4	3	×		=		7	2

b.
6		×	3	=	1		6

Solve problems including scaling and correspondence problems.

20. Solve the following problems:

a. There are 8 apples in one box. How many apples are there in 6 boxes?

_____

b. Kangaroos have 2 legs and zebras have 4 legs. A zoo keeper counts 22 legs altogether. How many kangaroos and zebras could there be?
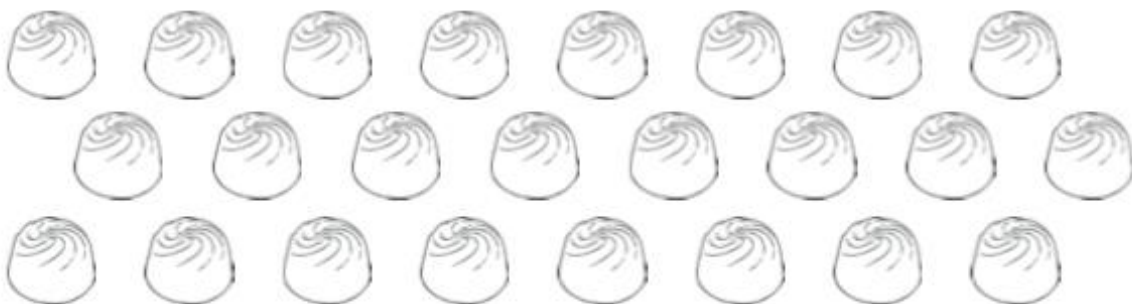
_____

c. 18 cupcakes are shared equally between 3 boxes. How many cupcakes are in each box?

_____

Fractions

Count up and down in tenths.

21. Fill in the missing numbers to complete the sequence:

$$\frac{2}{10} \qquad \frac{3}{10} \qquad \frac{4}{10} \qquad \frac{}{10} \qquad \frac{6}{}$$

22. Shade in the squares to represent the fraction $\frac{7}{10}$.
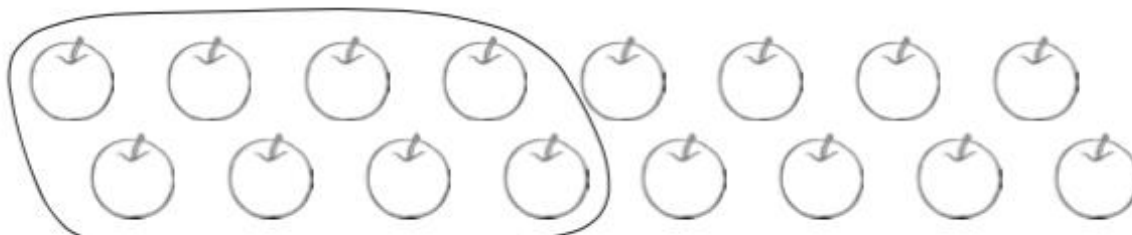
Find fractions of amounts.

23. Circle $\frac{1}{4}$ of the strawberries.

24. Circle $\frac{3}{4}$ of the sweets.

25. What fraction of the apples have been grouped together?

Recognise and show equivalent fractions.

26. Draw lines to match the equivalent fractions.

$\frac{3}{4}$ $\frac{1}{2}$

$\frac{1}{3}$ $\frac{6}{8}$

$\frac{1}{5}$ $\frac{2}{10}$

$\frac{5}{10}$ $\frac{2}{6}$

Add and subtract fractions with the same denominator.

27. Calculate the following:

a. $\frac{2}{5} + \frac{1}{5} =$ _____

b. $\frac{3}{8} + \frac{2}{8} =$ _____

c. $\frac{3}{4} - \frac{1}{4} =$ _____

d. $\frac{7}{8} - \frac{3}{8} =$ _____

Compare and order unit fractions.

28. Order these fractions from smallest to largest:

$$\frac{1}{3} \qquad \frac{1}{2} \qquad \frac{1}{5} \qquad \frac{1}{4} \qquad \frac{1}{6}$$

Smallest _____ Largest

29. Use < or > to complete these number sentences:

a. $\frac{1}{4}$ _____ $\frac{1}{2}$

b. $\frac{7}{8}$ _____ $\frac{3}{8}$

Solve problems involving fractions.

30. A cake is divided into 10 slices. Harry takes 2 slices and Emily takes 3. Write what fraction of the cake is left.

_____

31. Lucy has $\frac{1}{4}$ of £400. Jack has $\frac{3}{4}$ of £200. Who has the most money?

_____

_____

_____

Measurement