Baseline Maths Assessment – Year 3

Number and Place Value

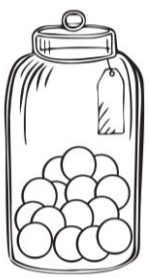
1. Complete the sequence of numbers.

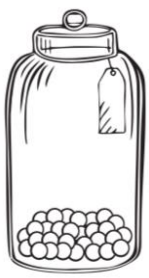
0	2	4	6						
0	3	6	9						
0	5	10	15						
40	50	60	70						
120	110	100	90						

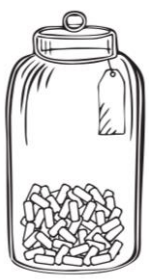
2. Write the value of each underlined digit.

2<u>1</u>	_____	3<u>5</u>	_____	6<u>5</u>	_____
9<u>3</u>	_____	5<u>6</u>	_____	8<u>2</u>	_____

3. Estimate the total number of sweets in each jar pictured below







4. Use the symbols > or < to compare the numbers.

94 ☐ 76 52 ☐ 25 54 ☐ 49

5. Write the following numbers in words.

46	_____	64	_____	17	_____
98	_____	100	_____	30	_____

6. Solve the problems.

45	+	17	=		87	–	36	=			
63	–	13	=		34	+	43	=			
48	+	23	=		99	–	67	=			

7. Complete the following number bonds mentally.

	+	16	=	20		+	12	=	20		
20	–		=	8	20	–		=	2		
	+	11	=	20		+	3	=	20		
20	–		=	14	20	–		=	7		

8. Complete each calculation.

65	+	9	=		87	–	6	=			
43	–	8	=		32	+	9	=			
37	+	7	=		62	–	3	=			

9. Complete each calculation.

49	+	40	=		28	–	10	=			
33	–	20	=		58	+	30	=			
82	+	10	=		76	–	50	=			

10. Complete each calculation.

39	+	40	=			83	–	76	=		
59	–	37	=			62	+	26	=		
49	+	16	=			78	–	34	=		

11. Complete the sums.

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

12. Write an addition and subtraction sentence for each set of numbers.

34, 17, 17			+			=					–			=			
25, 52, 27			+			=					–			=			
64, 16, 48			+			=					–			=			

13. Solve each missing number problem by using the inverse calculation.

24	+			=	75					–			=				
		–	32	=	48					+			=				
		+	46	=	97					–			=				

14. Write the next five multiples of each number.
Then, circle the odd numbers in red and the even numbers in blue.

12	14	16	_____	_____	_____	_____	_____		
0	5	10	_____	_____	_____	_____	_____		
30	40	50	_____	_____	_____	_____	_____		

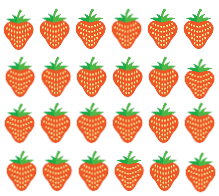
15. Use the symbols x, ÷ or = to complete each number sentence.

5	☐	6	☐	30	70	☐	10	☐	7
12	☐	2	☐	24	16	☐	2	☐	8
45	☐	5	☐	9	40	☐	10	☐	4

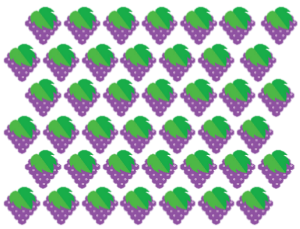
16. Write a multiplication and division sentence for each set of numbers.

10, 50, 5	☐	x	☐	=	☐	☐	÷	☐	=	☐
12, 2, 24	☐	x	☐	=	☐	☐	÷	☐	=	☐
15, 5, 3	☐	x	☐	=	☐	☐	÷	☐	=	☐

17. Write a multiplication sentence, a division sentence, and a repeated addition sentence to describe each array.



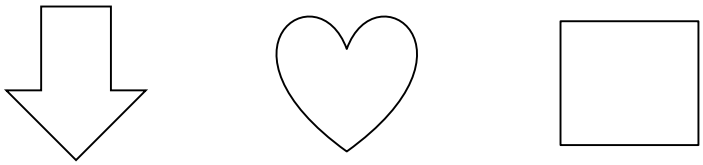
☐ x ☐ = ☐ ☐ ÷ ☐ = ☐



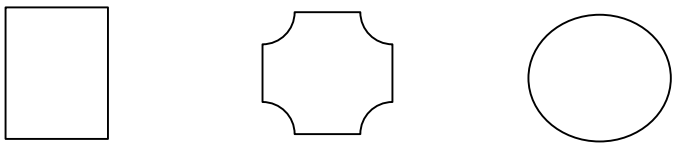
☐ x ☐ = ☐ ☐ ÷ ☐ = ☐

Fractions

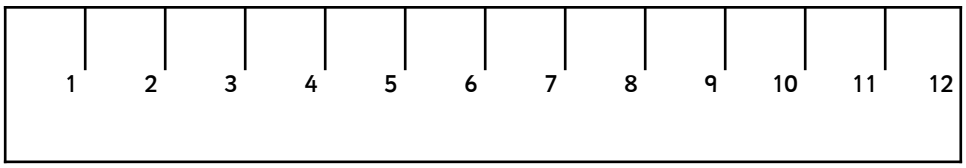
18. Shade $\frac{1}{2}$ of each of these shapes.



19. Shade $\frac{1}{4}$ of each of these shapes.

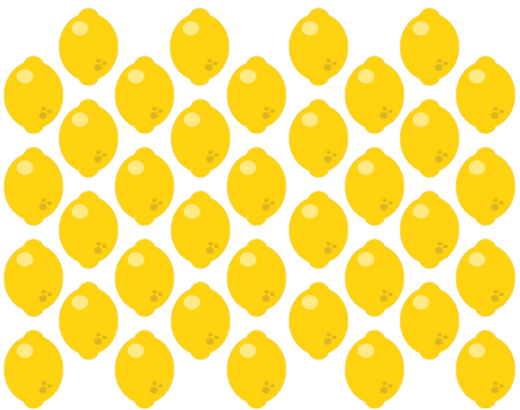


20. Shade $\frac{3}{4}$ of this ruler.



21. Circle $\frac{2}{4}$ of the peaches.

Circle $\frac{1}{4}$ of the lemons.



22. Calculate the given fraction of each whole number.

$\frac{1}{4}$ of 16 = ☐

$\frac{1}{2}$ of 6 = ☐

$\frac{3}{4}$ of 20 = ☐

$\frac{1}{2}$ of 30 = ☐

$\frac{3}{4}$ of 28 = ☐

$\frac{1}{4}$ of 32 = ☐

Measurement

23. Order the following lengths from tallest to shortest.

74cm	25cm	92cm	30cm	101cm

24. Order the following weights from heaviest to lightest.

54kg	29kg	45kg	56kg	39kg

25. Use the <, > or = symbols to compare the following measurements.

34 kg		29 kg	17 l		21 l
25 cm		52 cm	51 m		51 m
26 °C		19 °C	296 ml		312 ml

26. You have the following coins in your piggy bank.

What is the total amount of money in your piggy bank? ____

Using only the coins pictured above, show two different ways to make:

26p	45p	£1.10

27. You have 98p. You buy two bags of sweets for 10p each. How much change will you receive? Show your workings in the space below.

28. Use the <, > or = symbols to compare the following lengths of time.

60 minutes ☐ 1 hour

2 hours ☐ 60 minutes

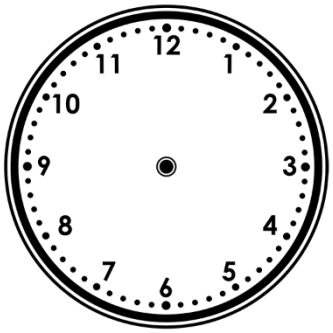
Half an hour ☐ 45 minutes

30 minutes ☐ 1 hour

29. How many minutes are in one hour? ☐

30. How many hours are in one day? ☐

31. Draw hands on the clocks to show these times.



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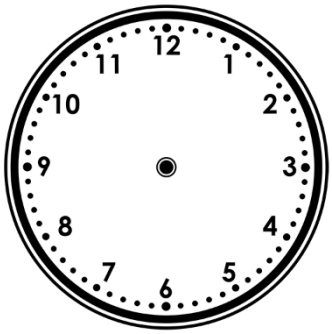

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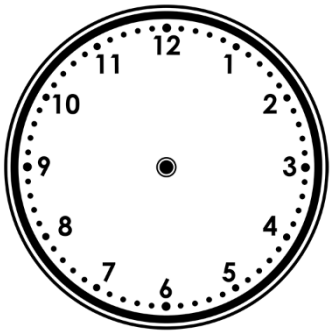

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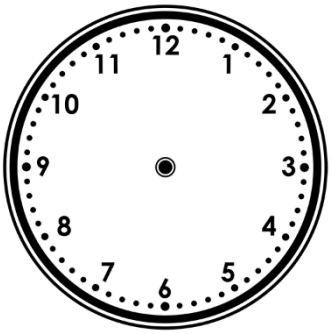

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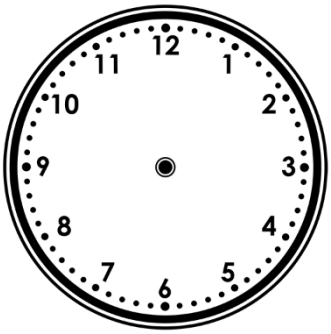

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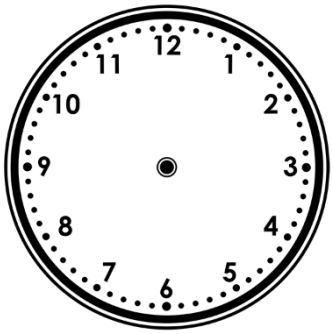

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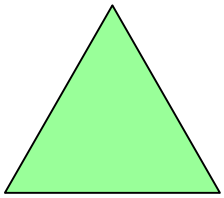
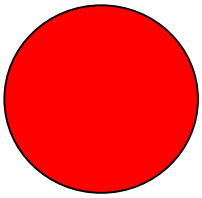
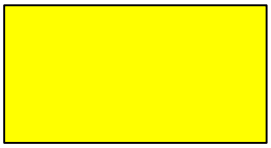
Geometry

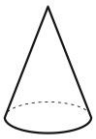
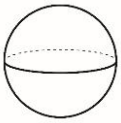
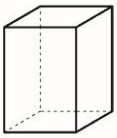
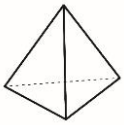
32. Write the number of sides each shape has in the boxes below. Then, draw a vertical line of symmetry through each of the shapes.



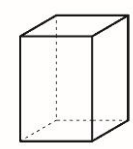
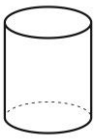
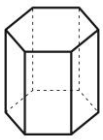
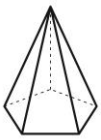
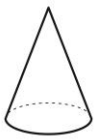




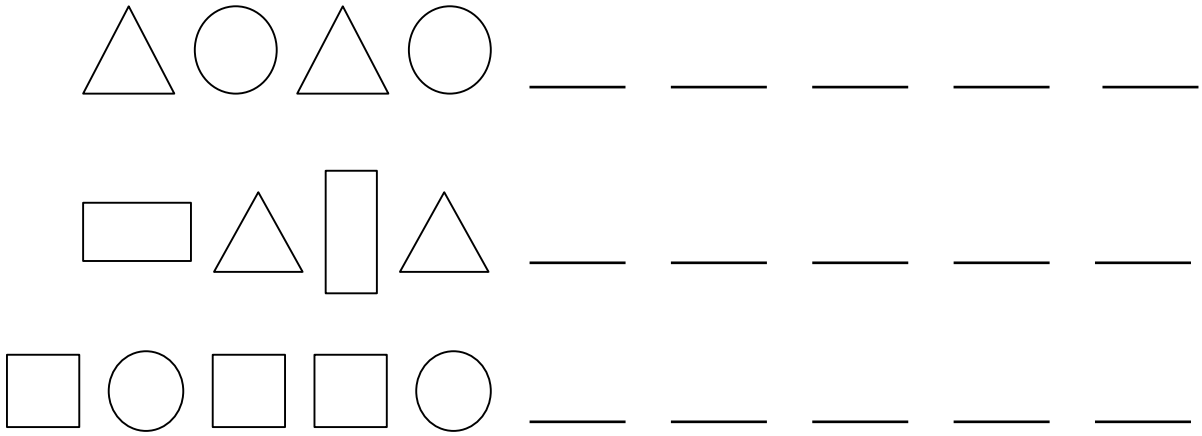
33. Fill in the table with the properties of the 3D shapes.

				
Name of shape				
edges				
vertices				
faces				

34. List any 2D shapes you see on the surface of each of the following 3D shapes.

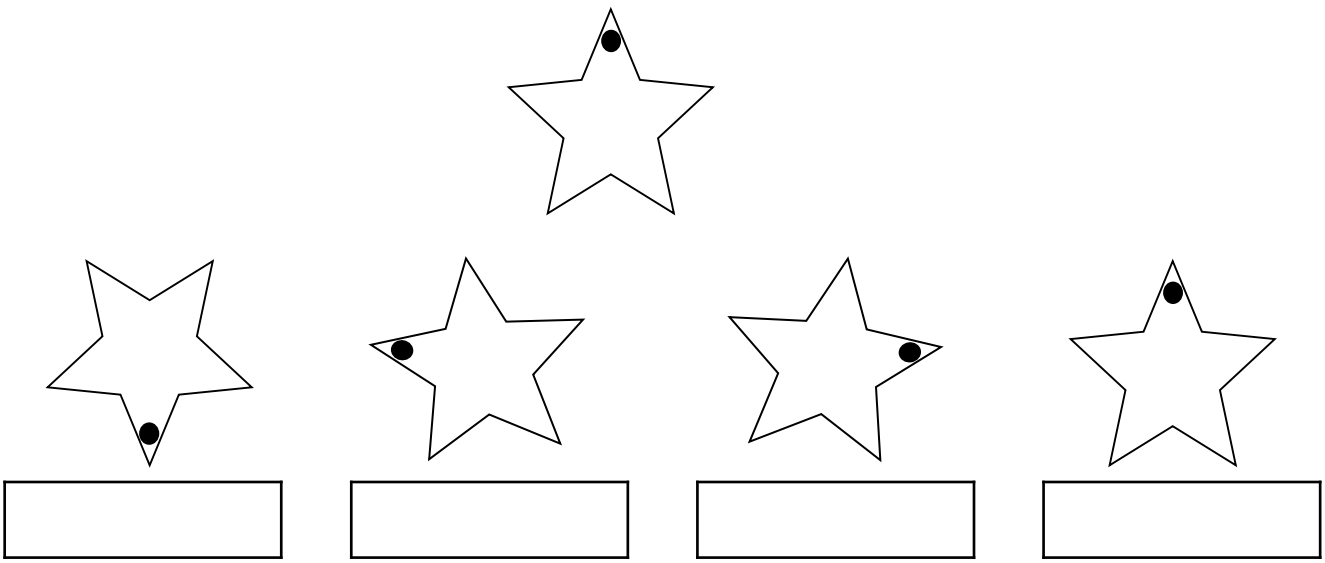
				

35. Repeat the patterns and complete each sequence.

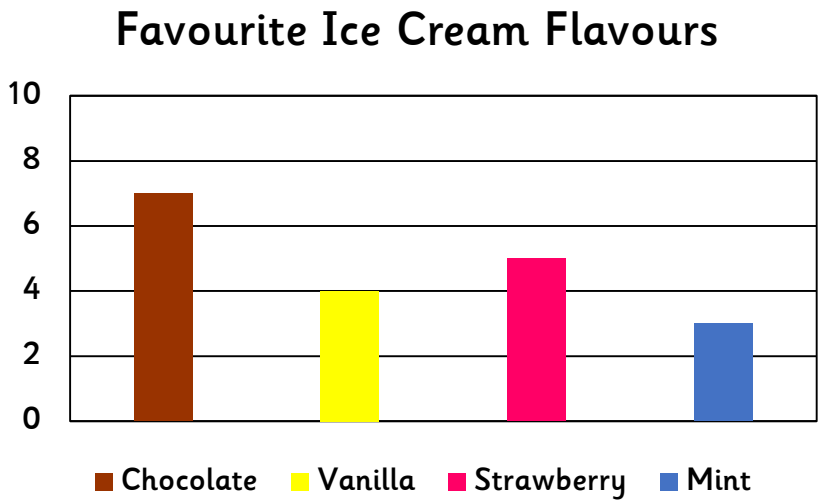


36. Look at the star. Match each shape below to the degree of rotation from the word bank.

half turn	quarter turn clockwise	whole turn	three-quarter turn clockwise



37. Read the bar chart and answer the questions below.



a. What is the most popular ice cream flavour?

b. What is the least popular ice cream flavour?

c. How many people voted in total?

d. List the four flavours from most to least popular.

e. Fill in the tally chart below to shows the number of votes for each flavour.