

Baseline Maths Assessment – Year 3

Number and Place Value

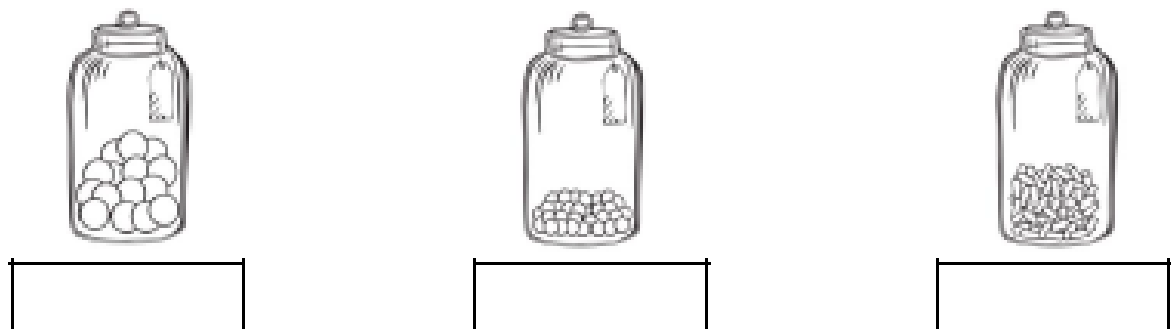
1. Complete the sequence of numbers.

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.

<u>2</u> 1	_____	3 <u>5</u>	_____	<u>6</u> 5	_____
9 <u>3</u>	_____	<u>5</u> 6	_____	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
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5. Write the following numbers in words.

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

## Addition and Subtraction

6. Solve the problems.

$$45 + 17 = \boxed{\phantom{00}}$$

$$87 - 36 = \boxed{\phantom{00}}$$

$$63 - 13 = \boxed{\phantom{00}}$$

$$34 + 43 = \boxed{\phantom{00}}$$

$$48 + 23 = \boxed{\phantom{00}}$$

$$99 - 67 = \boxed{\phantom{00}}$$

7. Complete the following number bonds mentally.

$$\boxed{\phantom{00}} + 16 = 20$$

$$\boxed{\phantom{00}} + 12 = 20$$

$$20 - \boxed{\phantom{00}} = 8$$

$$20 - \boxed{\phantom{00}} = 2$$

$$\boxed{\phantom{00}} + 11 = 20$$

$$\boxed{\phantom{00}} + 3 = 20$$

$$20 - \boxed{\phantom{00}} = 14$$

$$20 - \boxed{\phantom{00}} = 7$$

8. Complete each calculation.

$$65 + 9 = \boxed{\phantom{00}}$$

$$87 - 6 = \boxed{\phantom{00}}$$

$$43 - 8 = \boxed{\phantom{00}}$$

$$32 + 9 = \boxed{\phantom{00}}$$

$$37 + 7 = \boxed{\phantom{00}}$$

$$62 - 3 = \boxed{\phantom{00}}$$

9. Complete each calculation.

$$49 + 40 = \boxed{\phantom{00}}$$

$$28 - 10 = \boxed{\phantom{00}}$$

$$33 - 20 = \boxed{\phantom{00}}$$

$$58 + 30 = \boxed{\phantom{00}}$$

$$82 + 10 = \boxed{\phantom{00}}$$

$$76 - 50 = \boxed{\phantom{00}}$$

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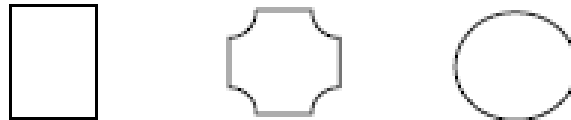


Fractions

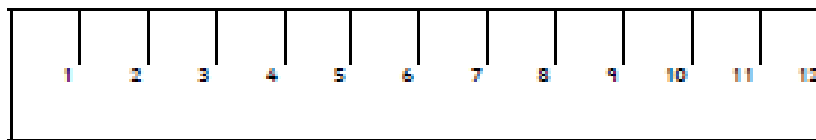
18. Shade  $\frac{1}{2}$  of each of these shapes.



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



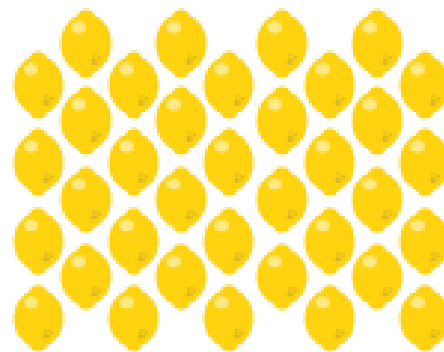
20. Shade  $\frac{3}{4}$  of this ruler.



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



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



22. Calculate the given fraction of each whole number.

$$\frac{1}{4} \text{ of } 16 = \square$$

$$\frac{1}{2} \text{ of } 30 = \square$$

$$\frac{1}{2} \text{ of } 6 = \square$$

$$\frac{3}{4} \text{ of } 28 = \square$$

$$\frac{3}{4} \text{ of } 20 = \square$$

$$\frac{1}{4} \text{ of } 32 = \square$$

Measurement

23. Order the following lengths from tallest to shortest.

74cm	25cm	92cm	30cm	101cm

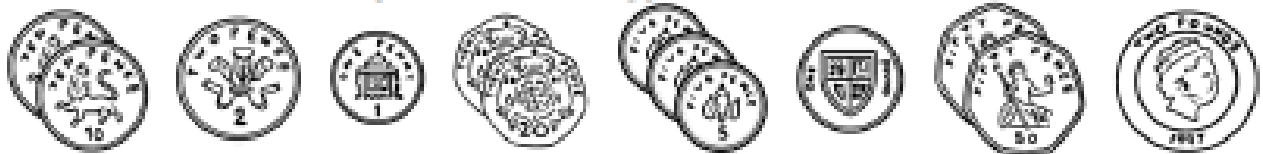
24. Order the following weights from heaviest to lightest.

54kg	29kg	45kg	56kg	39kg

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

34 kg	<input type="text"/>	29 kg	17 l	<input type="text"/>	21 l
25 cm	<input type="text"/>	52 cm	51 m	<input type="text"/>	51 m
26 °C	<input type="text"/>	19 °C	296 ml	<input type="text"/>	312 ml

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



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

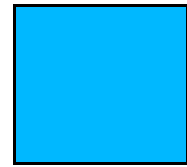
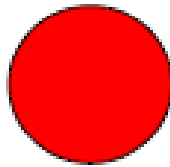
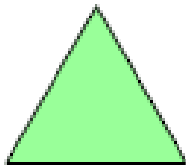
Using only the coins pictured above, show two different ways to make:

26p	45p	£1.10



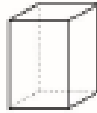



Geometry

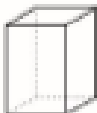



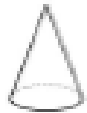
32. Write the number of sides each shape has in the boxes below. Then, draw a vertical line of symmetry through each of the shapes.



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

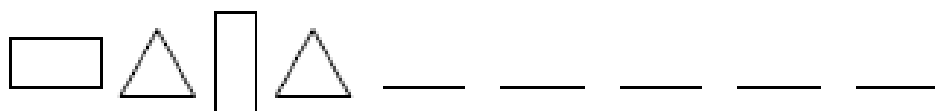
				
Name of shape				
edges				
vertices				
faces				

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.



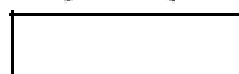
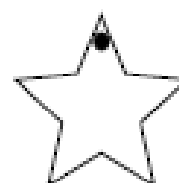
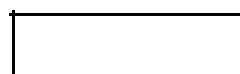
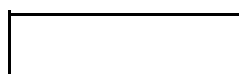
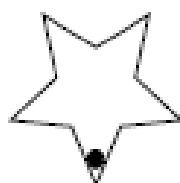
36. Look at the star. Match each shape below to the degree of rotation from the word bank.

half turn

quarter turn clockwise

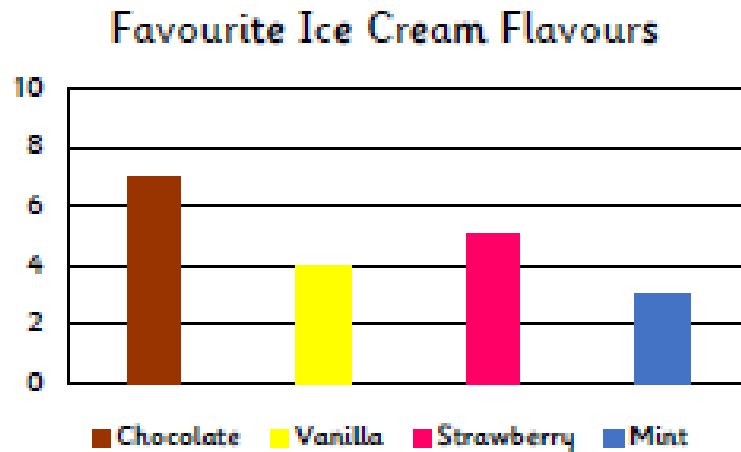
whole turn

three-quarter turn clockwise



Statistics

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.

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
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e. Fill in the tally chart below to show the number of votes for each flavour.




12.  $17 + 17 = 34$ ,  $34 - 17 = 17$   
 $25 + 27 = 52$  or  $27 + 25 = 52$ ,  $52 - 25 = 27$  or  $52 - 27 = 25$   
 $48 + 16 = 64$  or  $16 + 48 = 64$ ,  $64 - 16 = 48$  or  $64 - 48 = 16$

13.  $51 + 24 = 75$ ,  $75 - 24 = 51$   
 $80 - 32 = 48$ ,  $48 + 32 = 80$   
 $51 + 46 = 97$ ,  $97 - 46 = 51$

Multiplication and Division

14.  $18 \times 20 = 360$ ,  $22 \times 24 = 528$ ,  $26 \times 30 = 780$   
 $15 \times 20 = 300$ ,  $25 \times 30 = 750$ ,  $35 \times 100 = 3500$

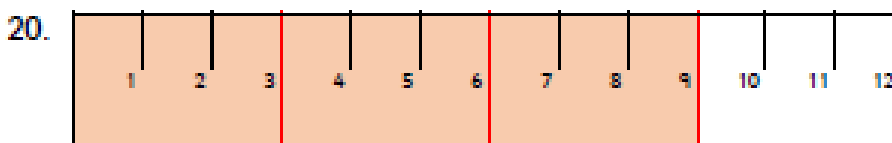
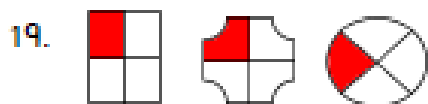
15.  $5 \times 6 = 30$ ,  $70 \div 10 = 7$   
 $12 \times 2 = 24$ ,  $16 \div 2 = 8$   
 $45 \div 5 = 9$ ,  $40 \div 10 = 4$

16.  $10 \times 5 = 50$  or  $5 \times 10 = 50$ ,  $50 \div 10 = 5$  or  $50 \div 5 = 10$   
 $12 \times 2 = 24$  or  $2 \times 12 = 24$ ,  $24 \div 2 = 12$  or  $24 \div 12 = 2$   
 $3 \times 5 = 15$  or  $5 \times 3 = 15$ ,  $15 \div 5 = 3$  or  $15 \div 3 = 5$

17.  $4 \times 6 = 24$ ,  $24 \div 4 = 6$   
 $6 + 6 + 6 + 6 = 24$  or  $4 + 4 + 4 + 4 + 4 + 4 = 24$

$6 \times 7 = 42$ ,  $42 \div 7 = 6$   
 $7 + 7 + 7 + 7 + 7 + 7 = 42$  or  $6 + 6 + 6 + 6 + 6 + 6 + 6 = 42$

Fractions



21. Circle any 32                      Circle any 9

22.    4                      15  
      3                      21  
      15                     8

Measurement

23.    

101cm
-------

92cm
------

74cm
------

30cm
------

25cm
------

24.    

56kg
------

54kg
------

45kg
------

39kg
------

29kg
------

25.    >                      <  
      <                      =  
      >                      <

25. £4.78

26p: 10p + 10p + 5p + 1p / 20p + 5p + 1p / 10p + 5p + 5p + 5p + 1p

45p: 20p + 20p + 5p / 20p + 10p + 10p + 5p / 20p + 10p + 5p + 5p + 5p

£1.10: £1 + 10p / £1 + 5p + 5p / 50p + 50p + 10p / 50p + 50p + 5p + 5p

50p + 20p + 20p + 10p + 10p / 50p + 20p + 20p + 10p + 5p + 5p

27. 10p + 10p = 20p, 98p - 20p = 78p

28.    =                      >  
      <                      <

29. 60

30. 24

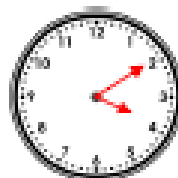
31.



9:05



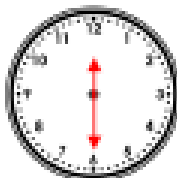
12:40



4:10



7:55



12:30







4:45






Geometry

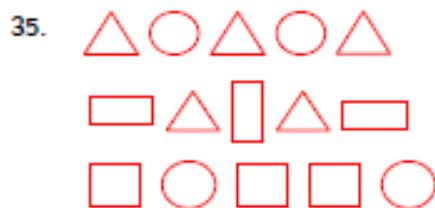
32. 3 sides, 1 side, 4 sides, 4 sides, ensure lines of symmetry are in the centre.

33.

				
Name of shape	cone	sphere	cuboid	pyramid (tetrahedron)
edges	1	0	12	6
vertices	1	0	8	4
faces	2	1	6	4

34.

				
rectangle	circle	rectangle	triangle	circle
square		hexagon	pentagon	



36. half turn / three-quarter turn clockwise / quarter turn clockwise / whole turn

- 37 a. chocolate  
 b. mint  
 c. 19  
 d. chocolate, strawberry, vanilla, mint

e.

Flavour	Number of votes
Chocolate	 II
Vanilla	
Strawberry	
Mint	