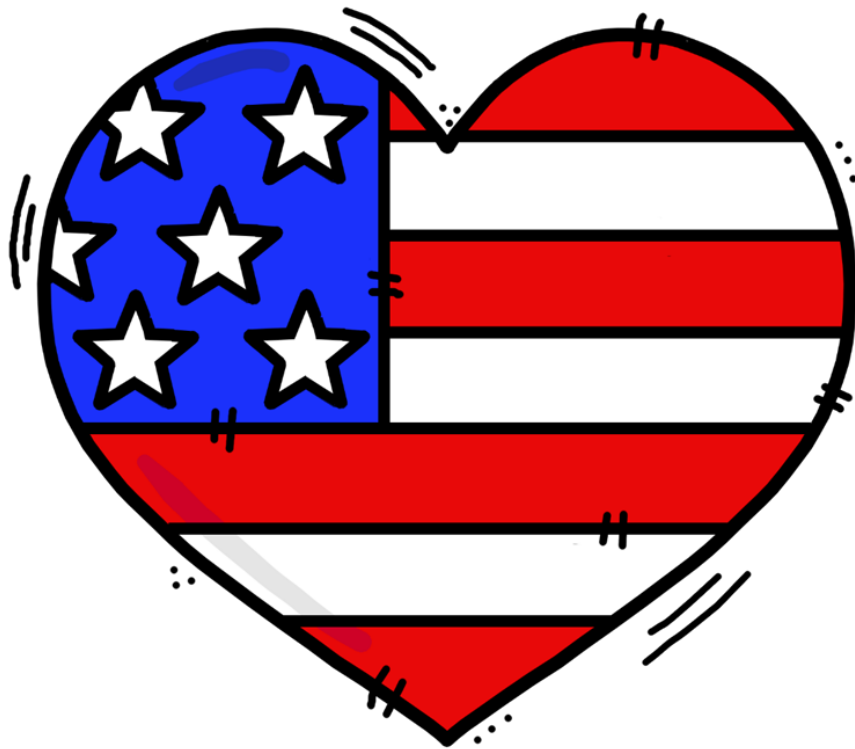


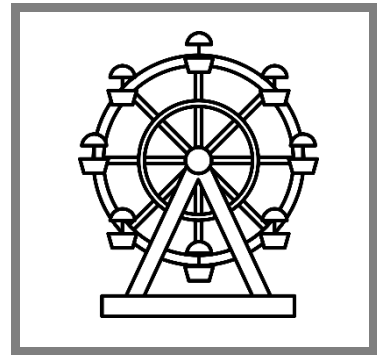
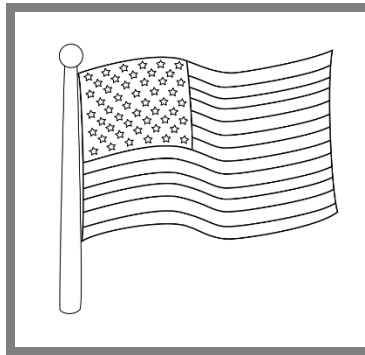
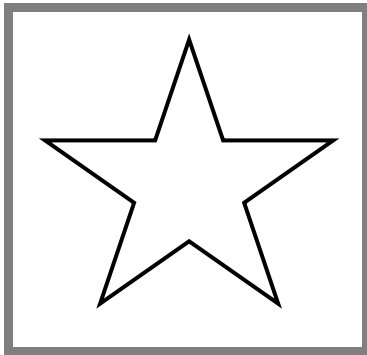
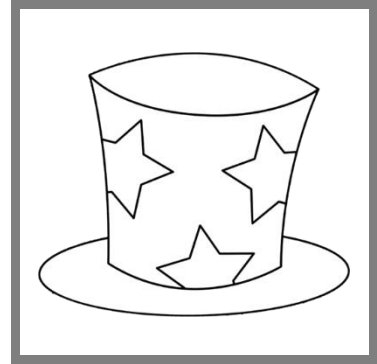
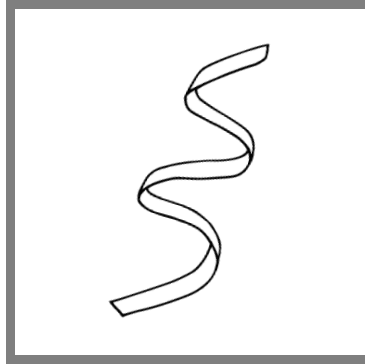
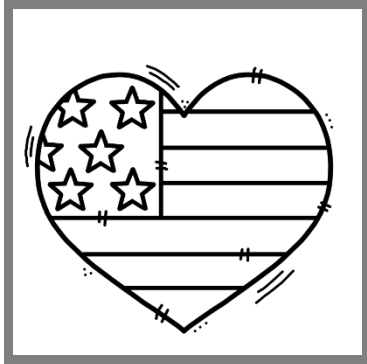
Stars and Stripes Math Fun



Question Sheet 1

These six cards each have a number on the other side.

Use the clues to find out which number is on which card.



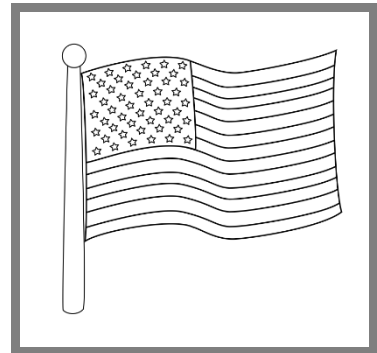
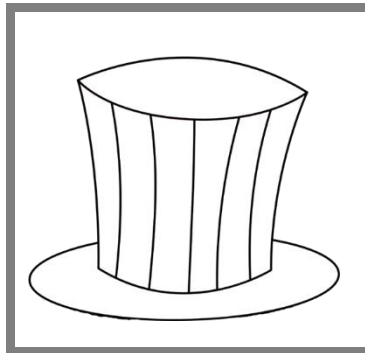
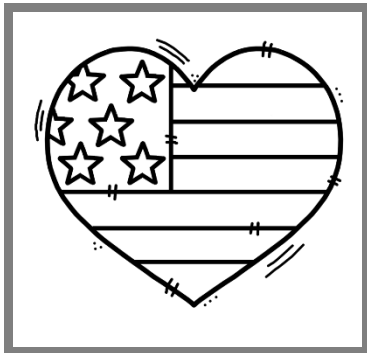
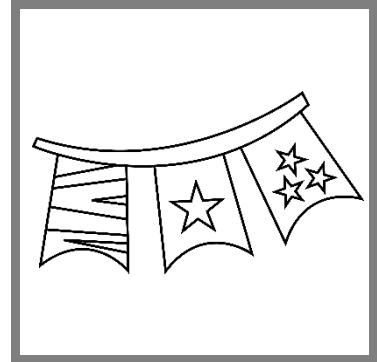
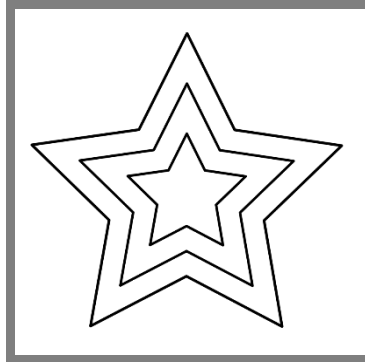
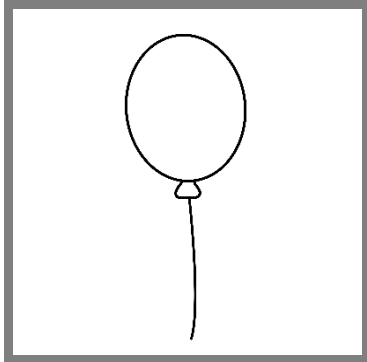
The Clues

- The six numbers are: 6, 7, 8, 9, 48 and 56.
- The number on the heart card multiplied by the number on the ribbon card is equal to the number on the hat card.
- The number on the ribbon card added to the number on the hat card is equal to the number on the star card.
- The number on the star card divided by the number on the ribbon card is equal to the number on the flag card.

Question Sheet 2

These six cards each have a number on the other side.

Use the clues to find out which number is on which card.



The Clues




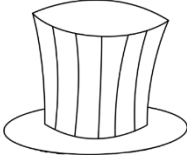
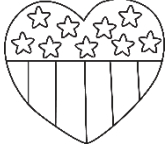

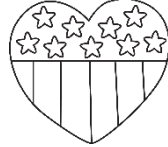
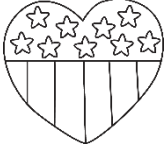
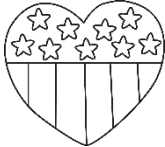


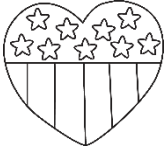

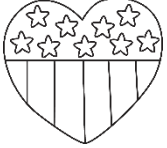
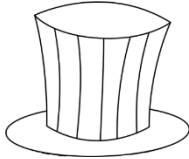

- The six numbers are: 5, 6, 7, 12, 35 and 42.
- The number on the balloon card multiplied by the number on the star card is equal to the number on the bunting card.
- The number on the star card added to the number on the bunting card is equal to the number on the heart card.
- The number on the heart card divided by the number on the star card is equal to the number on the hat card.

Question Sheet 3

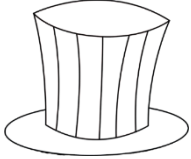
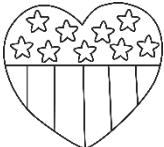


Find the number that each picture represents.

Each row adds up to the total number at the end of the row.

Each column adds up to the total number at the top of the column.

60	64	64	44	
				60
				48
				68
				56

Write your answers under each picture.

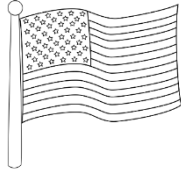

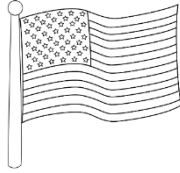

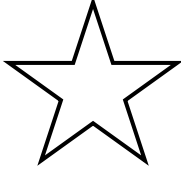
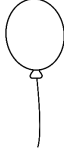
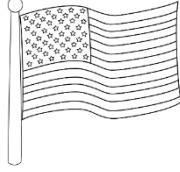
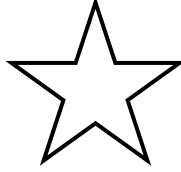
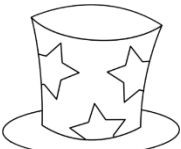
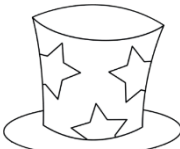


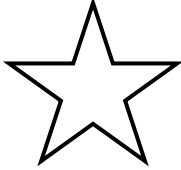
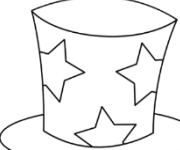
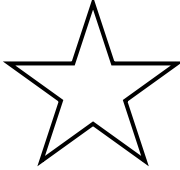

			

Question Sheet 4

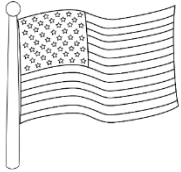

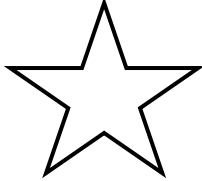
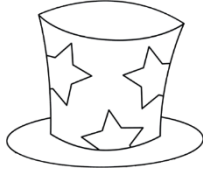
Find the number that each picture represents.

Each row adds up to the total number at the end of the row.

Each column adds up to the total number at the top of the column.

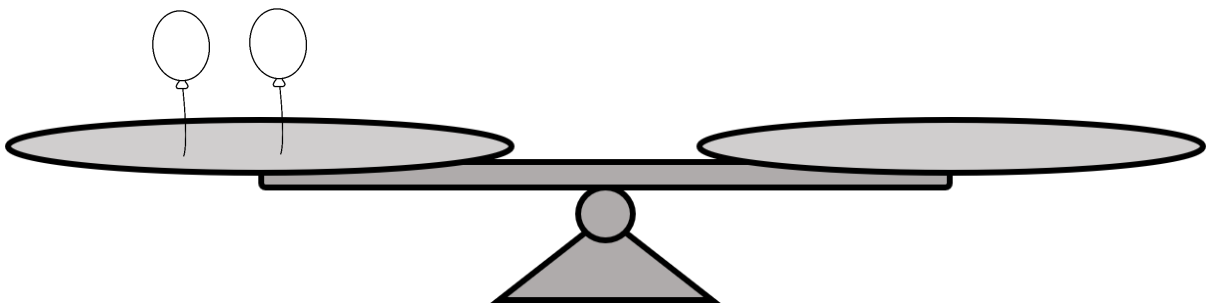
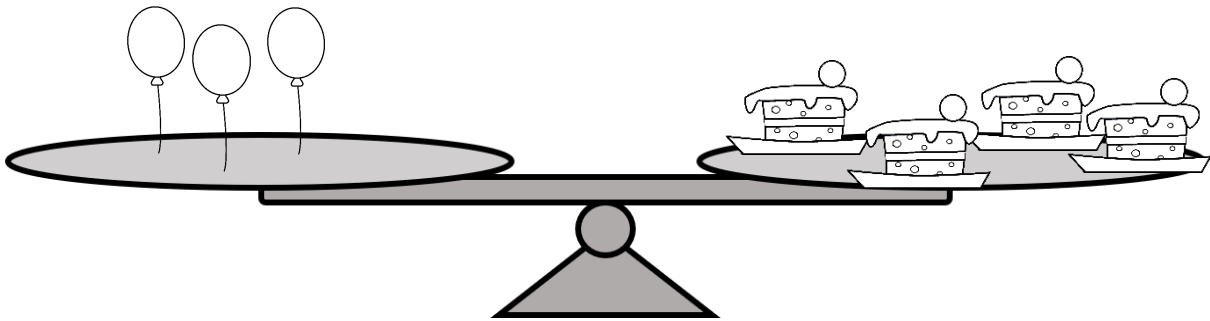
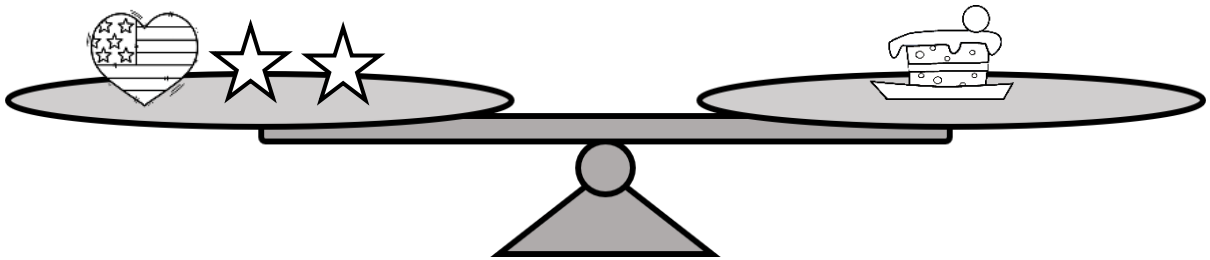
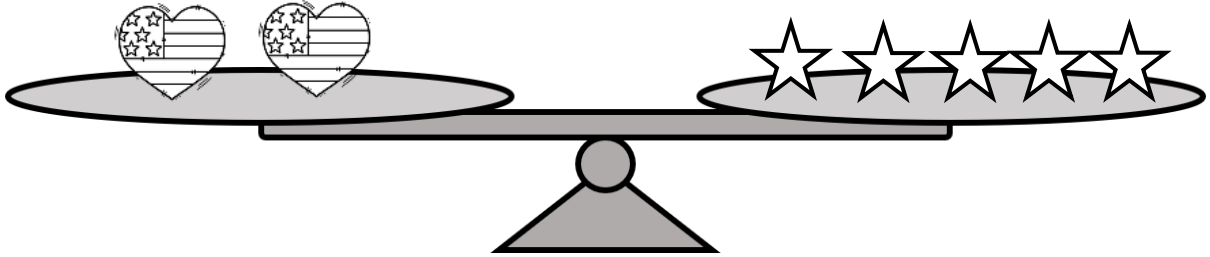
68	74	60	66	
				55
				55
				87
				71

Write your answers under each picture.

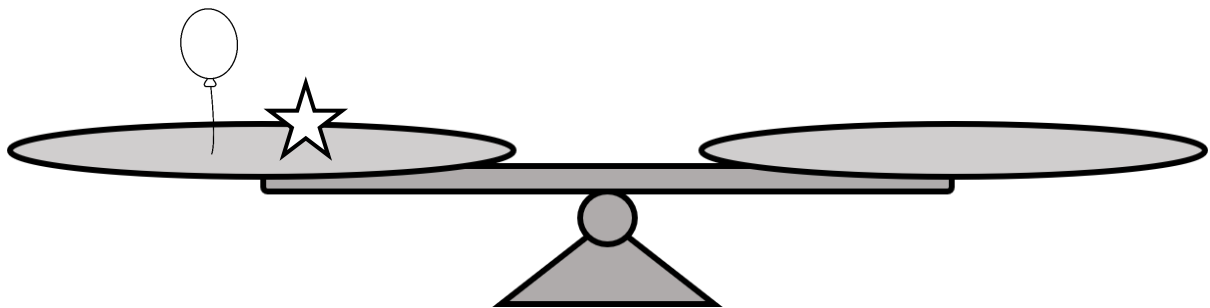
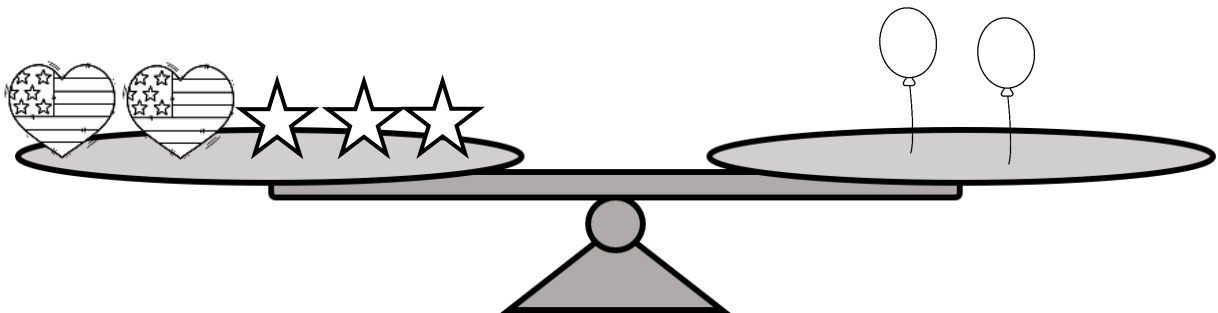
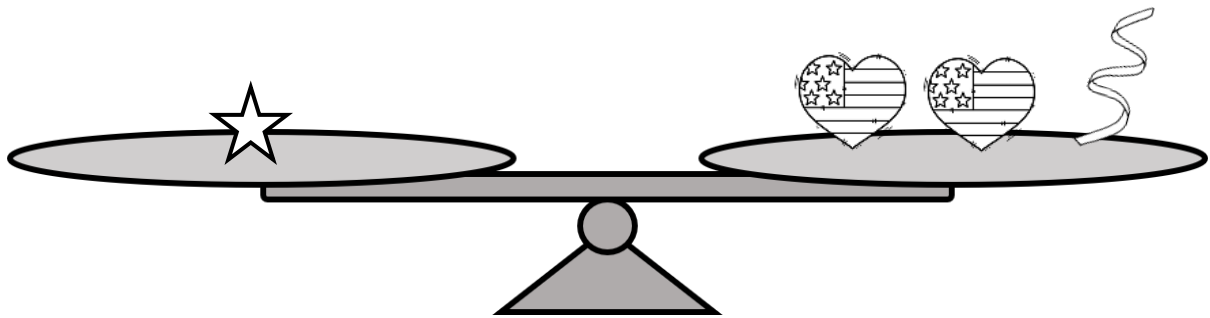
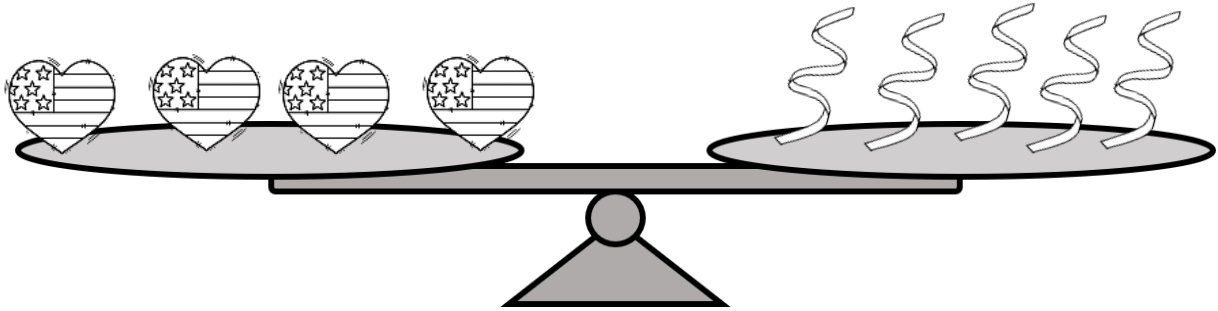
Question Sheet 5

Draw the correct number of stars to balance the last scale.

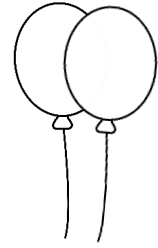


Question Sheet 6

Draw the correct number of ribbons to balance the last scale.



Question Sheet 7



Three sisters have a total age of 23 years.

Charlotte is twice as old as Harriet.

Anna is three years older than Harriet

How old is each sister?

Each sister buys an item for their party.

Charlotte buys a flag.

Anna buys some balloons.

Harriet buys some bunting.

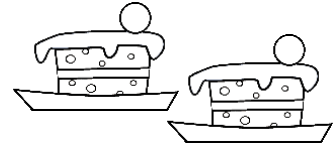
The balloons cost \$1 more than the flag.

The bunting costs twice as much as the flag.

The total cost is \$29.

How much does each item cost?

Question Sheet 8



Three brothers have a total age of 22 years.

William is twice as old as Ben.

Ben is two years older than Oliver.

How old is each brother?

Each brother buys an item for their party.

William buys some balloons.

Ben buys a party hat.

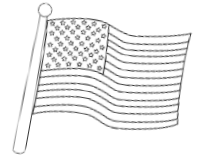
Oliver buys some cake.

The balloons cost twice as much as the cake.

The cake costs \$3 more than the party hat.

The total cost is \$29.

How much does each item cost?

Question Sheet 9

Use the clues to find four numbers.

The number of colors on the US flag.	The number of white stripes on the US flag.	The number of red stripes on the US flag.	The number of stars on the US flag.

Use each of the four numbers above exactly once to make as many of the numbers 1-100 as you can. For example, add all four numbers.

You can add, subtract, multiply and divide and use order of operations. There are at least 45 different numbers you can make!

Color all the numbers you can make in red.



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Question Sheet 10

Use the clues to find four numbers.

The smallest even number.	The date in July of Independence Day.	The largest single digit number.	The number of days in June.

Use each of the four numbers above exactly once to make as many of the numbers 1-100 as you can. For example, add all four numbers.

You can add, subtract, multiply and divide and use order of operations. There are at least 50 different numbers you can make!

Color all the numbers you can make in blue.



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Teachers Notes

Stars and Stripes Themed Fun Math Logic Problems

Red, white and blue summer worksheets, great for end of the year fun.

Use for Flag Day, Patriot Day, 4th of July, Independence Day, Presidents Day and Labor Day.

Contents:

This resource includes:

- 10 worksheets – each worksheet has one puzzle to figure out.
- Teachers notes.
- All answers.

Objectives:

To practice: -

- Operations with numbers.
- Solving word problems.
- Developing logic skills.
- Developing problem solving skills.
- Order of operations with numbers.
- Writing and evaluating expressions with numbers.

Directions:

Print out a set of worksheets for each student.

You can use the “fit to page” option on your printer.

Alternatively, laminate one set of worksheets for students to share.

Or display for your class on a smartboard.

Notes:

All answers are included, so you can easily mark students work.

Students can color the pictures as they do the questions.

These questions will easily last an hour.

Answers

Question Sheet 1

Heart = 6

Ribbon = 8

Hat = 48

Star = 56

Flag = 7

Ferris Wheel = 9

Question Sheet 2

Balloon = 5

Star = 7

Bunting = 35

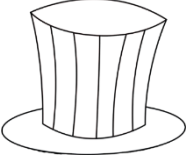
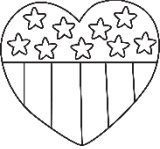


Heart = 42

Hat = 6

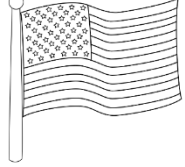
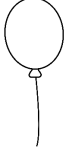
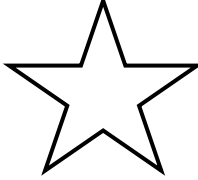
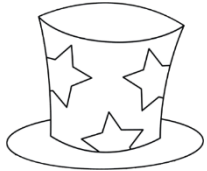
Flag = 12

Answers

Question Sheet 3

			
7	11	23	15

Question Sheet 4

			
9	12	17	25

Question Sheet 5

12 stars are needed to balance the last scale.

Question Sheet 6

10 ribbons are needed to balance the last scale.

Answers

Question Sheet 7

Charlotte = 10 years old

Anna = 8 years old

Harriet = 5 years old

Flag = \$7

Balloons = \$8

Bunting = \$14

Question Sheet 8

William = 12 years old

Ben = 6 years old

Oliver = 4 years old

Balloons = \$16

Party Hat = \$5

Cake = \$8

Answers**Question Sheet 9**

The number of colors on the US flag.	The number of white stripes on the US flag.	The number of red stripes on the US flag.	The number of stars on the US flag.
3	6	7	50

There are at least 45 different numbers you can make!

There may be more.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Answers**Question Sheet 9**

These are some of the answers. There are more!

$$6 - (50 \div (3 + 7)) = 1$$

$$50 - ((6 \times 7) + 3) = 5$$

$$(50 + 3 + 7) \div 6 = 10$$

$$(50 - 6 + 7) \div 3 = 17$$

$$50 \div (6 \div 3) - 7 = 18$$

$$(50 + 6 + 7) \div 3 = 21$$

$$(50 - 6) - (3 \times 7) = 23$$

$$(50 - (6 \times 7)) \times 3 = 24$$

$$(50 + 7) \div 3 + 6 = 25$$

$$50 \div (3 + 7) \times 6 = 30$$

$$50 \div (6 \div 3) + 7 = 32$$

$$50 - 3 - 6 - 7 = 34$$

$$(50 + 6) - (3 \times 7) = 35$$

$$50 - ((6 \times 7) \div 3) = 36$$

$$(50 + 7) - (3 \times 6) = 39$$

$$50 + 3 - 6 - 7 = 40$$

$$50 - 3 + 6 - 7 = 46$$

$$50 - ((7 - 6) \times 3) = 47$$

$$50 - 3 - 6 + 7 = 48$$

$$50 + 3 + 6 - 7 = 52$$

$$50 + ((7 - 6) \times 3) = 53$$

$$50 + 3 - 6 + 7 = 54$$

$$50 + 7 - (6 \div 3) = 55$$

$$50 + 7 + (6 \div 3) = 59$$

$$50 - 3 + 6 + 7 = 60$$

$$50 + (3 \times 6) - 7 = 61$$

$$50 + ((6 \times 7) \div 3) = 64$$

$$50 + (3 \times 7) - 6 = 65$$

$$50 + 3 + 6 + 7 = 66$$

$$((7 - 3) \times 6) + 50 = 74$$

$$50 + (3 \times 6) + 7 = 75$$

$$(3 \times 6 \times 7) - 50 = 76$$

$$50 + (3 \times 7) + 6 = 77$$

$$(50 - 7) \times (6 \div 3) = 86$$

$$50 + (7 \times 6) - 3 = 89$$

$$50 \times (6 \div 3) - 7 = 93$$

$$50 + (7 \times 6) + 3 = 95$$

$$((6 + 3) - 7) \times 50 = 100$$

Answers**Question Sheet 10**

The smallest even number.	The date in July of Independence Day.	The largest single digit number.	The number of days in June.
2	4	9	30

There are at least 50 different numbers you can make!

There may be more.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Answers**Question Sheet 10**

These are some of the answers. There are more!

$$30 \div (9 + 4 + 2) = 2$$

$$(30 + 4 + 2) \div 9 = 4$$

$$30 \div (9 - (4 + 2)) = 10$$

$$30 - ((9 \times 4) \div 2) = 12$$

$$30 - 9 - 4 - 2 = 15$$

$$30 - 9 - 4 + 2 = 19$$

$$30 - 9 + 4 - 2 = 23$$

$$9 \times (4 + 2) - 30 = 24$$

$$((30 + 4) \div 2) + 9 = 26$$

$$30 - 9 + 4 + 2 = 27$$

$$30 + 9 - 4 - 2 = 33$$

$$(30 - (9 + 4)) \times 2 = 34$$

$$30 + 9 - 4 + 2 = 37$$

$$30 + 9 + 4 - 2 = 41$$

$$9 \times (4 \times 2) - 30 = 42$$

$$30 + ((9 \times 2) - 4) = 44$$

$$30 + 9 + 4 + 2 = 45$$

$$30 + ((9 \times 4) \div 2) = 48$$

$$(30 - (9 - 4)) \times 2 = 50$$

$$30 \times (4 - 2) - 9 = 51$$

$$30 + ((9 \times 2) + 4) = 52$$

$$((30 + 4) \times 2) - 9 = 59$$

$$((30 - 4) \times 2) + 9 = 61$$

$$30 + ((9 \times 4) - 2) = 64$$

$$30 + ((9 \times 4) + 2) = 68$$

$$30 \times (4 - 2) + 9 = 69$$

$$(30 + (9 - 4)) \times 2 = 70$$

$$((9 - 4) \times 30) \div 2 = 75$$

$$(30 - 9 - 2) \times 4 = 76$$

$$((30 + 4) \times 2) + 9 = 77$$

$$((30 + 9) \times 4) \div 2 = 78$$

$$((30 - 9) \times 4) - 2 = 82$$

$$9 \times (4 + 2) + 30 = 84$$

$$((30 - 9) \times 4) + 2 = 86$$

$$30 \times (9 - (4 + 2)) = 90$$

$$((30 - 9) + 2) \times 4 = 92$$

$$(30 \times 2) + (4 \times 9) = 96$$