

Emoji-Themed Rounding Maths Mosaic

Rounding 1-digit, 2-digit and 3-digit numbers to the nearest 10

Solve the calculations to reveal the hidden picture. Each answer has a special colour:

30, 50, 70, 90, 120, 140, 170 = yellow

10, 60, 100 = white

40, 80, 130 = black

20, 110 = blue

39	82	52	69	174	85	135	131	81
79	88	31	72	169	141	27	121	129
34	5	61	99	25	58	64	12	65
92	103	78	59	45	8	129	104	137
117	63	7	11	115	102	13	98	87
123	66	86	47	49	119	136	142	124
144	54	173	71	116	138	143	67	74
106	32	57	62	6	14	9	94	15
125	172	95	101	55	96	64	51	84
37	75	26	46	28	91	167	44	41

Challenge: How many numbers will round to 50? Can you list them all?

Emoji-Themed Rounding Maths Mosaic

Answers

30, 50, 70, 90, 120, 140, 170 = yellow

10, 60, 100 = white

40, 80, 130 = black

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39	82	52	69	174	85	135	131	81
79	88	31	72	169	141	27	121	129
34	5	61	99	25	58	64	12	65
92	103	78	59	45	8	129	104	137
117	63	7	11	115	102	13	98	87
123	66	86	47	49	119	136	142	124
144	54	173	71	116	138	143	67	74
106	32	57	62	6	14	9	94	15
125	172	95	101	55	96	64	51	84
37	75	26	46	28	91	167	44	41

Challenge: How many numbers will round to 50? Can you list them all?

9 numbers will round to 50.

45, 46, 47, 48, 49, 51, 52, 53, 54

Emoji-Themed Rounding Maths Mosaic

Rounding 2-digit, 3-digit and 4-digit numbers to the nearest 100

Solve the calculations to reveal the hidden picture. Each answer has a special colour:

100, 300, 700, 900, 2400, 4500 = yellow

500, 1600, 3200 = black

600, 1200, 2700 = white

200, 400 = pink

452	1635	659	52	4485	89	851	3249	541
3198	342	4490	65	888	317	318	710	473
2440	558	1234	611	2384	2713	595	2742	4503
257	603	1620	2690	278	1150	1583	649	74
936	576	2745	1195	862	1169	2670	1248	4521
187	243	907	728	332	681	714	376	440
426	195	296	4543	108	4536	2369	211	369
281	333	691	548	3156	1550	146	874	4458
516	108	137	4472	2431	923	112	63	537
1569	1616	2393	736	341	99	2413	481	3184

Challenge: A number is rounded to the nearest 100. The answer is 1300. What could the original number have been? List 3 possible answers.

Emoji-Themed Rounding Maths Mosaic

Answers

100, 300, 700, 900, 2400, 4500 = yellow

500, 1600, 3200 = black

600, 1200, 2700 = white

200, 400 = pink

452	1635	659	52	4485	89	851	3249	541
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281	333	691	548	3156	1550	146	874	4458
516	108	137	4472	2431	923	112	63	537
1569	1616	2393	736	341	99	2413	481	3184

Challenge: A number is rounded to the nearest 100. The answer is 1300. **Answers will vary but must lie between 1250 and 1349.**

What could the original number have been? List 3 possible answers.

Emoji-Themed Rounding Maths Mosaic

Rounding 1-digit numbers with tenths to the nearest whole number

Solve the calculations to reveal the hidden picture. Each answer has a special colour:

0, 1, 4, 6, 9 = yellow

2 = pink

5 = red

3, 8 = black

7 = blue

7.1	6.6	0.5	1.3	5.9	3.7	1.2	7.3	7.4
6.9	4.1	6.2	3.5	5.5	4.2	9.2	9.3	6.5
8.4	3.1	2.7	8.3	3.3	8.1	7.8	2.5	3.4
8.8	8.2	7.5	7.9	6.1	2.8	2.6	7.6	0.4
2.3	2.4	8.6	5.8	3.6	8.9	5.5	2.4	1.7
1.8	1.6	4.2	0.1	5.6	5.7	9.4	2.1	1.9
3.8	3.8	0.7	4.8	5.3	5.4	6.3	8.9	4.3
0.9	8.7	0.2	4.6	5.1	4.5	0.8	1.1	6.2
7.4	3.9	1.4	4.7	4.9	5.2	9.1	6.4	6.7
7.3	6.8	8.5	0.6	0.7	0.3	4.4	7.2	6.9

Challenge: In a decimal number, which digits could be in the tenths place if the number would be rounded up to the next whole number?

Emoji-Themed Rounding Maths Mosaic

Answers

0, 1, 4, 6, 9 = yellow

2 = pink

5 = red

3, 8 = black

7 = blue

7.1	6.6	0.5	1.3	5.9	3.7	1.2	7.3	7.4
6.9	4.1	6.2	3.5	5.5	4.2	9.2	9.3	6.5
8.4	3.1	2.7	8.3	3.3	8.1	7.8	2.5	3.4
8.8	8.2	7.5	7.9	6.1	2.8	2.6	7.6	0.4
2.3	2.4	8.6	5.8	3.6	8.9	5.5	2.4	1.7
1.8	1.6	4.2	0.1	5.6	5.7	9.4	2.1	1.9
3.8	3.8	0.7	4.8	5.3	5.4	6.3	8.9	4.3
0.9	8.7	0.2	4.6	5.1	4.5	0.8	1.1	6.2
7.4	3.9	1.4	4.7	4.9	5.2	9.1	6.4	6.7
7.3	6.8	8.5	0.6	0.7	0.3	4.4	7.2	6.9

Challenge: In a decimal number, which digits could be in the tenths place if the number would be rounded up to the next whole number?

5, 6, 7, 8 or 9.