Reasoning and Problem Solving
Multiply and Divide by 6

Developing

1a. Sam is incorrect because 6 x 6 = 36.

2a. Asha has got the wrong answer because 24 ÷ 6 = 4. She has drawn a bar model for 30 ÷ 5 = 6

3a. Various answers, for example:

12	
6	6

Expected

4a. Ruby is incorrect because 3 x 6 = 18.

5a. Max has got the wrong answer because 42 ÷ 6 = 7. He has drawn his bar model incorrectly.

42					
7	7	7	7	7	7

6a. Various answers, for example:
24 ÷ 6 = 4, 2 x 6 = 12

Greater Depth

7a. Lucy is incorrect because 8 x 6 = 48.

8a. William has got the wrong answer because 54 ÷ 6 = 9. Various visual representations, for example:

54					
9	9	9	9	9	9

9a. Various answers, for example:
11 x 6 = 66, 54 ÷ 6 = 9. Cards that cannot be used: 60, 72

Reasoning and Problem Solving
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1b. Ava is incorrect because 5 x 6 = 30.

2b. Rex has got the wrong answer because 12 ÷ 6 = 2. She has drawn a bar model for 18 ÷ 3 = 6

3b. Various answers, for example:

36					
6	6	6	6	6	6

Expected

4b. Ben is incorrect because 7 x 6 = 42.

5b. Katie has got the wrong answer because 18 ÷ 6 = 3. She has drawn his bar model incorrectly.

18					
3	3	3	3	3	3

6b. Various answers, for example:
36 ÷ 6 = 6, 3 x 6 = 18

Greater Depth

7b. Jake is incorrect because 4 x 6 = 24.

8b. Laura has got the wrong answer because 6 ÷ 6 = 1. Various visual representations, for example:

6					
1	1	1	1	1	1

9b. Various answers, for example:
12 x 6 = 72, 36 ÷ 6 = 6. Cards that cannot be used: 10, 54, 66