

# Royal Wedding

## Multiplication and Division Mosaic

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

**red**                      **blue**                      **purple**                      **white**  
 6, 9, 12, 24              7, 40, 44              10                      8, 11, 36, 48

$12 \times 4$	$6 \times 8$	$12 \times 2$	$48 \div 4$	$8 \times 6$	$6 \times 4$	$1 \times 9$	$6 \times 6$	$22 \div 2$
$33 \div 3$	$10 \times 4$	$24 \div 2$	$77 \div 11$	$2 \times 6$	$81 \div 9$	$2 \times 12$	$3 \times 3$	$4 \times 12$
$36 \div 3$	$70 \div 10$	$3 \times 8$	$84 \div 12$	$10 \div 1$	$9 \times 1$	$72 \div 8$	$3 \times 4$	$80 \div 8$
$4 \times 6$	$56 \div 8$	$4 \times 11$	$4 \times 10$	$90 \div 9$	$120 \div 12$	$60 \div 5$	$60 \div 6$	$2 \times 5$
$84 \div 7$	$42 \div 6$	$108 \div 9$	$63 \div 9$	$100 \div 10$	$63 \div 7$	$20 \div 2$	$8 \times 3$	$40 \div 4$
$144 \div 12$	$11 \times 4$	$6 \times 2$	$49 \div 7$	$5 \times 2$	$72 \div 6$	$4 \times 3$	$54 \div 6$	$110 \div 11$
$9 \times 4$	$1 \times 12$	$99 \div 11$	$96 \div 8$	$45 \div 5$	$90 \div 10$	$12 \times 1$	$120 \div 10$	$66 \div 6$
$88 \div 8$	$1 \times 11$	$2 \times 3$	$1 \times 6$	$132 \div 11$	$3 \times 2$	$36 \div 4$	$4 \times 2$	$4 \times 9$
$2 \times 4$	$3 \times 12$	$132 \div 12$	$27 \div 3$	$6 \times 1$	$108 \div 12$	$77 \div 7$	$12 \times 3$	$11 \times 1$
$55 \div 5$	$110 \div 10$	$1 \times 8$	$44 \div 4$	$18 \div 2$	$99 \div 9$	$8 \times 1$	$121 \div 11$	$56 \div 7$

**Challenge:** Use inverse operations to write related division facts for these multiplications:

$7 \times 8$

$5 \times 6$

$9 \times 4$

$12 \times 11$

# Royal Wedding Multiplication and Division Mosaic Answers

**red**                      **blue**                      **purple**                      **white**  
 6, 9, 12, 24              7, 40, 44                  10                              8, 11, 36, 48

$12 \times 4$	$6 \times 8$	$12 \times 2$	$48 \div 4$	$8 \times 6$	$6 \times 4$	$1 \times 9$	$6 \times 6$	$22 \div 2$
$33 \div 3$	$10 \times 4$	$24 \div 2$	$77 \div 11$	$2 \times 6$	$81 \div 9$	$2 \times 12$	$3 \times 3$	$4 \times 12$
$36 \div 3$	$70 \div 10$	$3 \times 8$	$84 \div 12$	$10 \div 1$	$9 \times 1$	$72 \div 8$	$3 \times 4$	$80 \div 8$
$4 \times 6$	$56 \div 8$	$4 \times 11$	$4 \times 10$	$90 \div 9$	$120 \div 12$	$60 \div 5$	$60 \div 6$	$2 \times 5$
$84 \div 7$	$42 \div 6$	$108 \div 9$	$63 \div 9$	$100 \div 10$	$63 \div 7$	$20 \div 2$	$8 \times 3$	$40 \div 4$
$144 \div 12$	$11 \times 4$	$6 \times 2$	$49 \div 7$	$5 \times 2$	$72 \div 6$	$4 \times 3$	$54 \div 6$	$110 \div 11$
$9 \times 4$	$1 \times 12$	$99 \div 11$	$96 \div 8$	$45 \div 5$	$90 \div 10$	$12 \times 1$	$120 \div 10$	$66 \div 6$
$88 \div 8$	$1 \times 11$	$2 \times 3$	$1 \times 6$	$132 \div 11$	$3 \times 2$	$36 \div 4$	$4 \times 2$	$4 \times 9$
$2 \times 4$	$3 \times 12$	$132 \div 12$	$27 \div 3$	$6 \times 1$	$108 \div 12$	$77 \div 7$	$12 \times 3$	$11 \times 1$
$55 \div 5$	$110 \div 10$	$1 \times 8$	$44 \div 4$	$18 \div 2$	$99 \div 9$	$8 \times 1$	$121 \div 11$	$56 \div 7$

$7 \times 8$   
**( $56 \div 7 = 8$ ,  $56 \div 8 = 7$ )**

$5 \times 6$   
**( $30 \div 5 = 6$ ,  $30 \div 6 = 5$ )**

$9 \times 4$   
**( $36 \div 9 = 4$ ,  $36 \div 4 = 9$ )**

$12 \times 11$   
**( $132 \div 12 = 11$ ,  $132 \div 11 = 12$ )**

# Royal Wedding Multiplication Mosaic

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

**red**  
1.8, 2.4, 3.5, 4.4

**blue**  
5.4

**white**  
6.2, 7.4, 8.2, 9.6

$7 \times 0.5$	$0.62 \times 10$	$0.45 \times 12$	$1.24 \times 5$	$0.7 \times 5$	$10 \times 0.74$	$6 \times 0.9$	$3.7 \times 2$	$0.35 \times 10$
$0.82 \times 10$	$0.3 \times 8$	$1.85 \times 4$	$5 \times 1.64$	$0.45 \times 4$	$5 \times 1.48$	$2 \times 4.8$	$0.48 \times 5$	$100 \times 0.096$
$0.6 \times 9$	$1.55 \times 4$	$5 \times 0.48$	$4.1 \times 2$	$0.2 \times 12$	$10 \times 0.96$	$6 \times 0.3$	$8 \times 1.2$	$0.54 \times 10$
$0.096 \times 100$	$2.4 \times 4$	$3.2 \times 3$	$0.6 \times 3$	$8 \times 0.3$	$11 \times 0.4$	$1.6 \times 6$	$5 \times 1.24$	$0.8 \times 12$
$1.2 \times 2$	$0.15 \times 12$	$6 \times 0.4$	$0.3 \times 6$	$10 \times 0.35$	$0.44 \times 10$	$2 \times 1.2$	$5 \times 0.36$	$10 \times 0.18$
$3.1 \times 2$	$6 \times 1.6$	$1.92 \times 5$	$0.36 \times 5$	$12 \times 0.15$	$0.4 \times 11$	$2 \times 4.1$	$10 \times 0.62$	$2 \times 3.1$
$0.9 \times 6$	$1.2 \times 8$	$12 \times 0.2$	$2 \times 3.7$	$4 \times 0.45$	$10 \times 0.82$	$3 \times 0.6$	$4.8 \times 2$	$9 \times 0.6$
$1.48 \times 5$	$0.2 \times 9$	$0.96 \times 10$	$0.74 \times 10$	$0.18 \times 10$	$4 \times 1.55$	$4 \times 2.4$	$0.6 \times 4$	$3 \times 3.2$
$4 \times 0.6$	$1.64 \times 5$	$10 \times 0.54$	$12 \times 0.8$	$0.4 \times 6$	$5 \times 1.92$	$12 \times 0.45$	$4 \times 1.85$	$9 \times 0.2$

**Challenge:** I have one square left that should be coloured in blue. List the questions that could be written in the box.

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# Royal Wedding Multiplication Mosaic

## Answers

**red**  
1.8, 2.4, 3.5, 4.4

**blue**  
5.4

**white**  
6.2, 7.4, 8.2, 9.6

$7 \times 0.5$	$0.62 \times 10$	$0.45 \times 12$	$1.24 \times 5$	$0.7 \times 5$	$10 \times 0.74$	$6 \times 0.9$	$3.7 \times 2$	$0.35 \times 10$
$0.82 \times 10$	$0.3 \times 8$	$1.85 \times 4$	$5 \times 1.64$	$0.45 \times 4$	$5 \times 1.48$	$2 \times 4.8$	$0.48 \times 5$	$100 \times 0.096$
$0.6 \times 9$	$1.55 \times 4$	$5 \times 0.48$	$4.1 \times 2$	$0.2 \times 12$	$10 \times 0.96$	$6 \times 0.3$	$8 \times 1.2$	$0.54 \times 10$
$0.096 \times 100$	$2.4 \times 4$	$3.2 \times 3$	$0.6 \times 3$	$8 \times 0.3$	$11 \times 0.4$	$1.6 \times 6$	$5 \times 1.24$	$0.8 \times 12$
$1.2 \times 2$	$0.15 \times 12$	$6 \times 0.4$	$0.3 \times 6$	$10 \times 0.35$	$0.44 \times 10$	$2 \times 1.2$	$5 \times 0.36$	$10 \times 0.18$
$3.1 \times 2$	$6 \times 1.6$	$1.92 \times 5$	$0.36 \times 5$	$12 \times 0.15$	$0.4 \times 11$	$2 \times 4.1$	$10 \times 0.62$	$2 \times 3.1$
$0.9 \times 6$	$1.2 \times 8$	$12 \times 0.2$	$2 \times 3.7$	$4 \times 0.45$	$10 \times 0.82$	$3 \times 0.6$	$4.8 \times 2$	$9 \times 0.6$
$1.48 \times 5$	$0.2 \times 9$	$0.96 \times 10$	$0.74 \times 10$	$0.18 \times 10$	$4 \times 1.55$	$4 \times 2.4$	$0.6 \times 4$	$3 \times 3.2$
$4 \times 0.6$	$1.64 \times 5$	$10 \times 0.54$	$12 \times 0.8$	$0.4 \times 6$	$5 \times 1.92$	$12 \times 0.45$	$4 \times 1.85$	$9 \times 0.2$

Accept any correct multiplication calculations with an answer of 5.4  
For example,  $100 \times 0.054$

# Royal Wedding

## Multiplication and Division Mosaic

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

red square numbers	orange cube numbers	white numbers with 4 factors	black numbers with 6 factors	light blue prime numbers	skin colour numbers with 8 factors
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109	61	181	8	125	27	59	107	41
71	103	43	40	24	40	7	67	131
191	137	127	42	66	42	113	193	5
17	101	157	197	78	19	3	151	40
53	13	2	12	6	44	36	11	32
167	199	28	50	8	100	52	89	52
179	18	47	45	25	20	97	45	173
79	18	29	16	10	12	31	149	7
3	68	81	98	75	44	73	5	163
23	78	2	28	54	32	83	139	37

**Challenge:** I have one square left that should be coloured in orange. List the numbers that could be written in the box.

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# Royal Wedding Multiplication and Division Mosaic Answers

**red** square numbers  
**orange** cube numbers  
**white** numbers with 4 factors  
**black** numbers with 6 factors  
**light blue** prime numbers  
**skin colour** numbers with 8 factors

109	61	181	8	125	27	59	107	41
71	103	43	40	24	40	7	67	131
191	137	127	42	66	42	113	193	5
17	101	157	197	78	19	3	151	40
53	13	2	12	6	44	36	11	32
167	199	28	50	8	100	52	89	52
179	18	47	45	25	20	97	45	173
79	18	29	16	10	12	31	149	7
3	68	81	98	75	44	73	5	163
23	78	2	28	54	32	83	139	37

Accept any cube numbers for example, 216, 343, 512, 729, 1000, 1331, 1728.