# Settle Primary School

# Key Stage 2 KIRF Challenge Quiz Book


**Name:** _____.

There are 2 additional quizzes for each of the additional colour KIRFs:

| Level | 1st try | 2nd try | 3rd try | 4th try | 5th try |
|---|---|---|---|---|---|
| Green 1 | | | | | |
| Green 2 | | | | | |
| Blue 1 | | | | | |
| Blue 2 | | | | | |
| Purple 1 | | | | | |
| Purple 2 | | | | | |
| Lilac 1 | | | | | |
| Lilac 2 | | | | | |
| Gold 1 | | | | | |
| Gold 2 | | | | | |

# Green 1

| | | | | | |
|---|---|---|---|---|---|
| 7 + 9 = | 3 + ? = 14 | 19 = ? + 8 | 9 + ? = 17 | ? + 13 = 16 | 18 = ? + ? |
| $3^2$ = | 9 x ? = 27 | What's the product of 3 and 2? | ? X 3 = 21 | ? = 18 ÷ 3 | 30 ÷ 3 = |
| 4 lots of 6 = | 28 = ? X 4 | 16 ÷ ? = 4 | ? X 4 = 44 | What's the product of 4 and 9? | 32 ÷ 4 = |
| Double 19 : | Halve 18 : | Double 370 : | Halve 360 : | Double 3900 : | Halve 4600 : |
| 26 + ? = 100 | 100 – 37 = | 1000 = 390 + ? | 1000 - 680 = | 35 + ? = 100 | 100 - 55 = |
| 4 multiplied by 6 = | 9 x ? = 81 | 36 = ? X 6 | What's the product of 6 and 9? | 30 ÷ ? = 6 | ? = 72 ÷ 9 |

# Green 2

| | | | | | |
|---|---|---|---|---|---|
| 4+ 9 = | 6 + ? = 13 | 15 = ? + 6 | 7 + ? = 17 | ? + 5 = 18 | 19 = ? + ? |
| 6 x 3 = | 11 x ? = 33 | What's the product of 3 and 10? | ? X 3 = 27 | ? = 36 ÷ 3 | 24 ÷ ? = 3 |
| 4 lots of 8 = | 32 = ? X 4 | 20 ÷ ? = 4 | ? X 4 = 28 | What's the product of 4 and 6? | 48 ÷ 4 = |
| Double 13 : | Halve 14 : | Double 490 : | Halve 370 : | Double 4600 : | Halve 3500 : |
| 73 + ? = 100 | 100 – 56 = | 1000 = 720 + ? | 1000 - 520 = | 45 + ? = 100 | 100 - 15 = |
| 5 multiplied by 6 = | 9 x ? = 63 | 48 = ? X 8 | What's the product of 4 and 9? | 42 ÷ 7 = | ? = 99 ÷ 9 |

# Blue 1

| | | | | | |
|---|---|---|---|---|---|
| 35 + ? = 100 | 100 - ? = 79 | 67 + ? = 100 | ? - 29 = 71 | 100 - ? = 69 | 100 - 84 = ? |
| 72 ÷ 9 = | 6 multiplied by 7 = | 48 = 6 lots of ? | 56 ÷ ? = 7 | 9 x ? = 63 | 96 = ? X ? |
| 100 - ? = 17 | ? + 45 = 100 | ? + 66 = 100 | 85 + ? = 100 | ? + 72 = 100 | 56 + ? = 100 |
| Double 57: | Halve 86: | Double 375: | Halve 850: | Double 4350: | Halve: 2750: |
| 1000 - 750 = ? | ? + 650 = 1000 | 450 - ? = 1000 | 1000 = ? + 150 | 1000 - 550 = ? | 600 = 1000 - ? |
| 6 x 9 = | 45 ÷ 5 = | 72 = 6 lots of ? | $9^2$ | 56 = ? x 8 | 63 ÷ 7 = |

# Blue 2

| | | | | | |
|---|---|---|---|---|---|
| 57 + ? = 100 | 100 - ? = 63 | 93 + ? = 100 | ? - 37 = 63 | 100 - ? = 81 | 100 - 76 = ? |
| 32 ÷ 8 = | 8 multiplied by 8 = | 24 = 8 lots of ? | 42 ÷ ? = 6 | 7 x ? = 77 | 63 = ? X ? |
| 100 - ? = 13 | ? + 35 = 100 | ? + 59 = 100 | 65 + ? = 100 | ? + 88 = 100 | 71 + ? = 100 |
| Double 39: | Halve 48: | Double 595: | Halve 350: | Double 4250: | Halve: 4850: |
| 1000 - 250 = ? | ? + 850 = 1000 | 650 - ? = 1000 | 1000 = ? + 950 | 1000 - 350 = ? | 800 = 1000 - ? |
| 8 x 7 = | 30 ÷ 6 = | 54 = 9 lots of ? | $7^2$ | 36 = ? x 4 | 35 ÷ 5 = |

# Purple 1

| | | | | | |
|---|---|---|---|---|---|
| 10 = ? + 7.4 | 4.7 + ? = 10 | 0.9 + ? = 1 | 1 - 0.7 = | 10 - 6.9 = ? | ? + 2.3 = 10 |
| 48 ÷ 6 = | ? ÷ 6 = 7 | 56 = 7 x ? | $8^2$ | 45 ÷ ? = 5 | 30 = ? X 5 |
| Double 55: | Halve 78: | Double 57: | Halve 52: | Double 93: | Halve 99: |
| Halve 540: | Double 770: | Halve 870: | Double 590: | Halve 8300: | Double 9300: |
| Can you find all the factor pairs (not including 1 or the number itself) for the following numbers? | 21 (one pair): | 51 (one pair): | 45 (two pairs): | 36 (four pairs): | 65 (one pair): |
| Circle the number/ s divisible by 2:<br>79 98 35 66 | Circle the number/ s divisible by 3:<br>75 24 43 60 | Circle the number/ s divisible by 5:<br>75 69 90 47 | Circle the number/ s divisible by 9:<br>37 72 93 108 | Circle the number/ s divisible by 3:<br>72 63 47 86 | Circle the number/ s divisible by 10:<br>76 40 15 80 |

# Purple 2

| | | | | | |
|---|---|---|---|---|---|
| 10 = ? + 3.7 | 5.8 + ? = 10 | 0.6 + ? = 1 | 1 - 0.3 = | 10 - 5.7 = ? | ? + 4.9 = 10 |
| 42 ÷ 6 = | ? ÷ 6 = 3 | 63 = 9 x ? | $7^2$ | 35 ÷ ? = 5 | 49 = ? X 7 |
| Double 69: | Halve 96: | Double 39: | Halve 86: | Double 47: | Halve 89: |
| Halve 480: | Double 690: | Halve 630: | Double 670: | Halve 6800: | Double 7900: |
| Can you find all the factor pairs (not including 1 or the number itself) for the following numbers? | 33 (one pair): | 18 (two pairs): | 75 (two pairs): | 56 (three pairs): | 48 (four pairs): |
| Circle the number/ s divisible by 2:<br>53 76 94 47 | Circle the number/ s divisible by 3:<br>77 84 69 29 | Circle the number/ s divisible by 5:<br>60 73 85 59 | Circle the number/ s divisible by 9:<br>333 117 199 46 | Circle the number/ s divisible by 3:<br>74 61 59 87 | Circle the number/ s divisible by 10:<br>72 30 60 93 |

# Lilac 1

| | | | | | |
|---|---|---|---|---|---|
| ? + 4.8 = 10 | 10 =7.4 + ? | 68 + ? = 100 | 1 - 0 .79 = | 10 = ? + 8.5 | 4.3 + ? = 10 |
| 7.2 ÷ ? = 9 | How many 7s make 4.9? | What's the product of 0.7 and 6? | What is 9 x 0.7? | What is 8 multiplied by 0.9? | ? X 0.7 = 3.5 |
| Double 5.7: | Halve 7.4: | Double 2.9: | Halve 9.5: | Double 3.7: | Halve 7.8: |
| Double 6550: | Halve 6360: | Double 990: | Halve 990: | Double ? = 8650: | Halve ? = 6455: |
| Circle the number/s divisible by 4:<br>415 580 344 | Circle the numbers divisible by 6:<br>60 79 53 | Circle the number/s divisible by 4:<br>967 812 859 | Circle the numbers divisible by 6:<br>90 76 96 | Circle the numbers divisible by 4:<br>777 430 652 | Circle the numbers divisible by 6:<br>199 572 642 |
| Write a multiple of 4 between 405 and 420: | 7.2 ÷ 8 = | Halve 7.7 | 0.9 x 6 = | Write a multiple of 6 between 641 and 660: | Double ? = 16.8 |

# Lilac 2

| | | | | | |
|---|---|---|---|---|---|
| ? + 5.7 = 10 | 10 =6.8 + ? | 79 + ? = 100 | 1 - 0 .33 = | 10 = ? + 3.5 | 2.9 + ? = 10 |
| 6.4 ÷ ? = 8 | How many 8s make 5.6? | What's the product of 9 and 0.6? | What is 9 x 0.8? | What is 0.6 multiplied by 8? | ? X 0.7 = 4.2 |
| Double 6.9: | Halve 9.4: | Double 3.8: | Halve 3.7: | Double 6.5: | Halve 7.7: |
| Double 7550: | Halve 2560: | Double 690: | Halve 690: | Double ? = 8644: | Halve ? = 7885: |
| Circle the number/s divisible by 4:<br>660 655 416 | Circle the numbers divisible by 6:<br>56 93 84 | Circle the number/s divisible by 4:<br>909 864 636 | Circle the numbers divisible by 6:<br>54 69 72 | Circle the numbers divisible by 4:<br>802 560 984 | Circle the numbers divisible by 6:<br>123 552 589 |
| Write a multiple of 4 between 330 and 340: | 5.6 ÷ 7 = | Halve 9.4 | 0.5 x 8 = | Write a multiple of 6 between 590 and 600: | Double ? = 18.7 |

# Gold 1

| | | | | | |
|---|---|---|---|---|---|
| 0.25 + ? = 1 | 1 - 0.47 = | O.72 = 1 - ? | 0.57 + ? = 1 | ? + 0.93 = 1 | 0.95 = 1 - ? |
| 50 x 6 = | 60 x 70 = | 900 x 7 = | 0.9 x 8 = | 6 x 800 = | 9 x 0.9 = |
| Put one prime number between 50 and 72 in each of the next 5 boxes: | | | | | |
| Double 67 000: | Halve 84 000: | Double 27 000: | Halve 87 000: | Double 69 000: | Halve 77 000: |
| Write the decimal **and** percentage equivalent for the following fractions: | $\frac{7}{10}$ | $\frac{3}{5}$ | $\frac{4}{10}$ | $\frac{1}{3}$ | $\frac{67}{100}$ |
| $8^2$ | $\sqrt{81}$ | $7^2$ | $\sqrt{36}$ | $11^2$ | $\sqrt{100}$ |

# Gold 2

| | | | | | |
|---|---|---|---|---|---|
| 0.35 + ? = 1 | 1 - 0.77 = | O.89 = 1 - ? | 0.68 + ? = 1 | ? + 0.83 = 1 | 0.85 = 1 - ? |
| 70 x 6 = | 80 x 70 = | 600 x 8 = | 0.4 x 8 = | 7 x 900 = | 8 x 0.9 = |
| Put one prime number between 72 and 100 each of the next 5 boxes: | | | | | |
| Double 87 000: | Halve 73 000: | Double 39 000: | Halve 96 000: | Double 53 000: | Halve 99 000: |
| Write the decimal **and** percentage equivalent for the following fractions: | $\frac{9}{10}$ | $\frac{4}{5}$ | $\frac{3}{10}$ | $\frac{4}{6}$ | $\frac{23}{100}$ |
| $7^2$ | $\sqrt{144}$ | $11^2$ | $\sqrt{64}$ | $6^2$ | $\sqrt{81}$ |