

Fluent in Five

Daily Arithmetic Practice
Week 7

Year 6

Year 6 - Week 7

Please note, we always recommend reading 'Your Guide to Using Fluent in Five' before using these resources with your class.

This week in a nutshell

- Mental multiplication of a 2-digit decimal by a single-digit number is introduced.
- Mental multiplication and division content from the previous weeks is recapped.
- Pupils continue to find fractions of numbers and are introduced to the 'fraction x number =' notation for the first time (e.g. $\frac{1}{5} \times 15 = 3$).
- Written methods continue to focus on long and short multiplication, together with the addition and subtraction of whole numbers.

1	$3.43 \times 100 =$	<div></div> <div>1 mark</div>

2	$1.32 \times 3 =$	<div></div> <div>1 mark</div>

3	$\frac{3}{7}$ of 28 =	<div></div> <div>1 mark</div>

$$43 \times 21 =$$

Year	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Population (millions)	7.5	7.7	7.9	8.1	8.3	8.5	8.7	8.9	9.1	9.3	9.5	9.7	9.9	10.1	10.3	10.5	10.7	10.9	11.1	11.3	11.5
GDP (trillion USD)	15.0	16.0	17.0	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
Life expectancy (years)	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95
Urban population (%)	55	57	59	61	63	65	67	69	71	73	75	77	79	81	83	85	87	89	91	93	95
Renewable energy (%)	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50
Carbon emissions (Gt CO2e)	15.0	15.5	16.0	16.5	17.0	17.5	18.0	18.5	19.0	19.5	20.0	20.5	21.0	21.5	22.0	22.5	23.0	23.5	24.0	24.5	25.0
Forest cover (%)	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11
Water stress (%)	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
Healthcare expenditure (USD/billion)	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250	260	270	280	290	300
Education expenditure (USD/billion)	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150
Research & Development (USD/billion)	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130
Unemployment (%)	5.5	5.8	6.1	6.4	6.7	7.0	7.3	7.6	7.9	8.2	8.5	8.8	9.1	9.4	9.7	10.0	10.3	10.6	10.9	11.2	11.5
Income inequality (Gini Index)	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
Digital connectivity (%)	60	65	70	75	80	85	90	95	100	100	100	100	100	100	100	100	100	100	100	100	100
Gender equality (Index)	0.75	0.76	0.77	0.78	0.79	0.80	0.81	0.82	0.83	0.84	0.85	0.86	0.87	0.88	0.89	0.90	0.91	0.92	0.93	0.94	0.95
Peace index	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2
Trust index	0.6	0.65	0.7	0.75	0.8	0.85	0.9	0.95	1.0	1.05	1.1	1.15	1.2	1.25	1.3	1.35	1.4	1.45	1.5	1.55	1.6
Environmental index	0.5	0.55	0.6	0.65	0.7	0.75	0.8	0.85	0.9	0.95	1.0	1.05	1.1	1.15	1.2	1.25	1.3	1.35	1.4	1.45	1.5
Quality of life index	0.8	0.85	0.9	0.95	1.0	1.05	1.1	1.15	1.2	1.25	1.3	1.35	1.4	1.45	1.5	1.55	1.6	1.65	1.7	1.75	

2 marks

$$1,664 + 2,349 =$$
[illegible]

1 mark

Answer Sheet

Remember, (M) is written next to those questions you should have tried to solve mentally first. (W) means a written method is usually more efficient for this question.

1. $3.43 \times 100 = \mathbf{343}$ (M)
2. $1.32 \times 3 = \mathbf{3.96}$ (M)
3. $\frac{3}{7}$ of 28 = **12** (M)
4. $43 \times 21 = \mathbf{903}$ (W)
5. $1,664 + 2,349 = \mathbf{4,013}$ (W)

1 mark

1 mark

1 mark

4	$\frac{11}{12} \times 144 =$ <div style="border: 1px solid red; height: 100px; width: 100%;"></div> <div style="border: 2px solid blue; width: 150px; height: 30px; margin: 10px auto;"></div>	<div style="border: 1px solid black; width: 40px; height: 30px; margin: 10px auto;"></div> <p>1 mark</p>
---	--	--

5	$8,953 - 695 =$ <div style="border: 1px solid red; height: 100px; width: 100%;"></div> <div style="border: 2px solid blue; width: 150px; height: 30px; margin: 10px auto;"></div>	<div style="border: 1px solid black; width: 40px; height: 30px; margin: 10px auto;"></div> <p>1 mark</p>
---	---	--

Answer Sheet

Remember, (M) is written next to those questions you should have tried to solve mentally first. (W) means a written method is usually more efficient for this question.

1. $3,763 \div 3 = \mathbf{1,254 \text{ r } 1}$ or $\mathbf{1,254.33}$ or $\mathbf{1,254\frac{1}{3}}$ (W)

2. $6.33 \times 2 = \mathbf{12.66}$ (M)

3. $\frac{1}{3} + \frac{3}{3} = \frac{\mathbf{4}}{\mathbf{3}}$ or $\mathbf{1\frac{3}{3}}$ (M)

4. $\frac{11}{12} \times 144 = \mathbf{132}$ (M)

5. $8,953 - 695 = \mathbf{8,258}$ (W)

1	300 + <input type="text"/> = 1,000 =	<input type="checkbox"/> 1 mark

2	431 x 7 =	<input type="checkbox"/> 1 mark

3	$\frac{6}{7} \times 140 =$	<input type="checkbox"/> 1 mark

4	$\frac{5}{6} + \frac{3}{6} =$	<input type="text"/> 1 mark

5	9,034 + <input type="text"/> = 13,439	<input type="text"/> 1 mark

Answer Sheet

Remember, (M) is written next to those questions you should have tried to solve mentally first. (W) means a written method is usually more efficient for this question.

1. $300 + \mathbf{700} = 1,000$ (M)
2. $431 \times 7 = \mathbf{3,017}$ (W)
3. $\frac{6}{7} \times 140 = \mathbf{120}$ (M)
4. $\frac{5}{6} + \frac{3}{6} = \frac{\mathbf{8}}{\mathbf{6}}$ or $\mathbf{1\frac{2}{6}}$ (M)
5. $9,034 + \mathbf{4,405} = 13,439$ (W)

1

$$700 + \boxed{} = 2,000$$

☐

1 mark

2

$$5 + 6 + 3 =$$

☐

1 mark

3

$$1.30 \times 6 =$$

☐

1 mark

4

	9	3	2	1
x				6

--

--	--

1 mark

5

$$3,433 \div 11 =$$

7

1 mark

Answer Sheet

Remember, (M) is written next to those questions you should have tried to solve mentally first. (W) means a written method is usually more efficient for this question.

1. $700 + \mathbf{1,300} = 2,000$ (M)
2. $5 + 6 + 3 = \mathbf{14}$ (M)
3. $1.30 \times 6 = \mathbf{7.8}$ (M)
4. $9,321 \times 6 = \mathbf{55,926}$ (W)
5. $3,433 \div 11 = \mathbf{312 \text{ r } 1}$ or $\mathbf{312 \frac{1}{11}}$ (W)

1	$700 + 230 =$																				<div><input type="text"/> 1 mark</div>

2	$\frac{4}{5}$ of 600 =																				<div><input type="text"/> 1 mark</div>

3	$68 \times 14 =$																				<div><input type="text"/> 1 mark</div>

4	$3.33 \times 3 =$	<div><input type="text"/></div> <div>1 mark</div>

5	<div><input type="text"/></div> $- 5,879 = 6,932$	<div><input type="text"/></div> <div>1 mark</div>

Answer Sheet

Remember, (M) is written next to those questions you should have tried to solve mentally first. (W) means a written method is usually more efficient for this question.

1. $700 + 230 = \mathbf{930}$ (M)
2. $\frac{4}{5}$ of 600 = **480** (M)
3. $68 \times 14 = \mathbf{952}$ (W)
4. $3.33 \times 3 = \mathbf{9.99}$ (M)
5. **12,811** – 5,879 = 6,932 (W)