Time

KS4 Maths
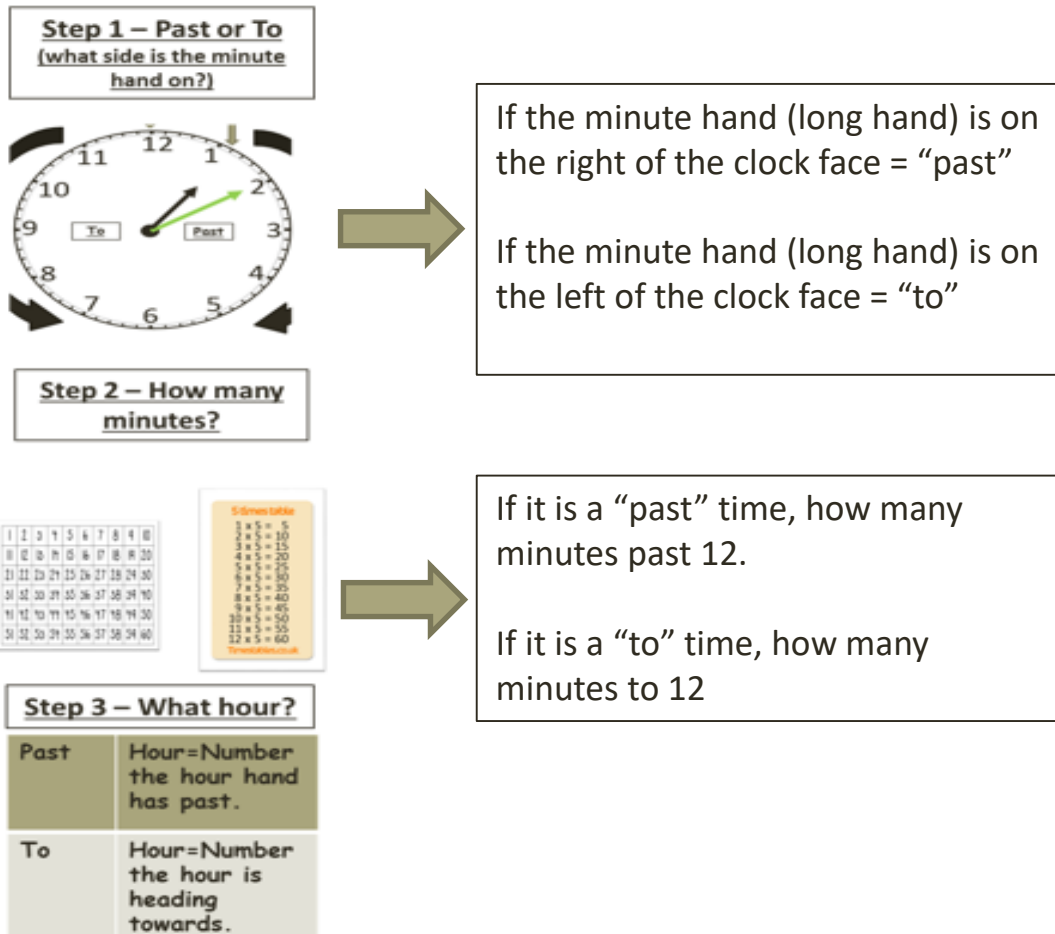
Please complete the work for your usual group, red, green, blue or purple
Your groups for Maths, English and Science are listed in your home learning pack.

Retrieval

•Remember, follow the sequence.

Step 1 – Past or To
(what side is the minute hand on?)

If the minute hand (long hand) is on the right of the clock face = "past"

If the minute hand (long hand) is on the left of the clock face = "to"

Step 2 – How many minutes?

If it is a "past" time, how many minutes past 12.

If it is a "to" time, how many minutes to 12

Step 3 – What hour?

Past	Hour=Number the hour hand has past.
To	Hour=Number the hour is heading towards.

Red
Group

Please write your name, date and learning objective at the top of a piece of paper.

Learning Objective
"To be able to read and solve timetable problems using 12 and 24 hour time"

Please write your answers on this piece of paper.

Red Group

L.O. To be able to read analogue and 24 hour time (past and to).

Success Criteria-
To be able to solve timetable questions using 12 hour / 24 hour time formats.

	3a	3b	3a	3b	3a
Newport Centre	09.00	09.10	09.20	09.30	09.40
Police station	09.10	09.20	09.30	09.40	09.50
Hospital	09.15	------	09.35	------	09.55
Tesco	09:20	09.25	09.40	09.45	10.00
Duffryn	09.30	09.35	09.50	09.55	10.10
Tesco	09.40	09.45	10.00	10.05	10.20
Hospital	09.45	------	10.05	10.15	10.25
Police Station	09.50	09.55	10.15	--------	10.30
Newport Centre	10.00	10.05	10.20	10.25	10.40

TESCO

Opening times

Monday	06.00 - midnight
Tuesday	06.00 - midnight
Wednesday	06.00 - midnight
Thursday	06.00 - midnight
Friday	06.00 - midnight
Saturday	06.00 - midnight
Sunday	10.00 – 16.00

1-You are travelling from Newport Centre. You have to be at the hospital at 10.20. What bus should you catch? _____

2- How long does the 3a take to get from Newport to Duffryn?_____

3- You have an interview in TESCO at 09.50. What bus would you catch from Newport Centre bus station to get to your interview?_____

4-Why wouldn't TESCO arrange an interview for 09.00 on a Sunday?_____

5-It is 10.07am, you are at the hospital, you want to travel back to Newport Centre. What bus should you catch?_____

Name-		Date-

Red Group

L.O. **To be able to read analogue and 24 hour time (past and to).**

Success Criteria-
To be able to solve timetable questions using 12 hour / 24 hour time formats.

9:00	9:30	10:00	10:30	11:00	11:30	12:00
Register	Maths	Break	Science	Music	Break	R.E.

Reading timetables

1) What time does the Maths lesson start? _____

2) What time does the Science lesson start? _____

3) What time does the teacher start the registration? _____

4) What time does the Music lesson finish? _____

5) How long is the first break? _____

6) How long does Maths last? _____

7) What time does Science finish? _____

L.O. To be able to read analogue and 24 hour time (past and to).

Success Criteria-
To be able to solve timetable questions using 12 hour / 24 hour time formats.

First 7 Bus Timetable 1

Stop							
Bristol, Bus Station [8]	0220	0320	0420	0450	0520	0540	0600
Bristol Temple Meads [Tb]	0229	0329	0429	0459	0532	0552	0612
West Street, Parson Street	0236	0336	0436	0506	0540	0600	0620
Bristol Airport	0247	0347	0447	0517	0551	0611	0631

First 🎯 Bus Timetable 1

Using the corresponding timetable answer the following questions;

1) What is the first bus from Bristol, Bus Station?

2) If I get on that bus what time will I arrive at Bristol Airport?

3) How long did that Journey take me?

4) If I want to arrive at West Street at 0600, what is the latest bus I can get from Bristol Bus Station?

5) If I catch the 0532 from Bristol Temple Meads, what time will I arrive at Bristol Airport?

6) There is a Ryanair Flight that leaves Bristol airport for Valencia at 715. I need to check in an hour before the flight. What is the latest bus I can catch from Bristol Bus Station?

L.O. To be able to read analogue and 24 hour time (past and to).

Success Criteria-
To be able to solve timetable questions using 12 hour / 24 hour time formats.

First Great Western — Timetable 1

Bristol Temple Meads	⑩d	0941	1211	1211	1441	1641	1841	2041
Filton Abbey Wood	d	0946	1216	1216	1446	1646	1846	2046
Bristol Parkway	⑦d	0953	1221	1221	1451	1650	1850	2050
Yate	d	1003	1232	1232	1502	1702	1902	2102
Cam & Dursley	d	1017	1246	1246	1516	1716	1916	2116
Gloucester	⑦a	1034	1302	1302	1534	1732	1932	2133
Gloucester	⑦d	1036	1306	1318	1552	1735	1937	2136
Cheltenham Spa	a	1046	1317	1330	1602	1745	1947	2146

Using the corresponding timetable answer the following questions;

1) What is the first train from Bristol Temple Meads?

2) If I get on that train what time will I arrive at Yate?

3) How long did that Journey take me?

4) If I want to arrive at Cheltenham Spa at 1330, what is the latest train I can get from Filton Abbey Wood?

5) If I catch the 1502 from Yate, what time will I arrive at Cheltenham Spa?

6) I begin school at Abbey Wood at 1000. What is the latest train I can catch from Bristol Temple Meads so I get to school on time?

Green
Group

Please write your name, date and learning objective at the top of a piece of paper.

Learning Objective
"To be able to read analogue time (past and to)"

Please write your answers on this piece of paper.

Remember

- Follow the sequence.

Step 1 – Past or To
(what side is the minute hand on?)

Step 2 – How many minutes?

Step 3 – What hour?

Past	Hour=Number the hour hand has past.
To	Hour=Number the hour is heading towards.

Prompt Sheet

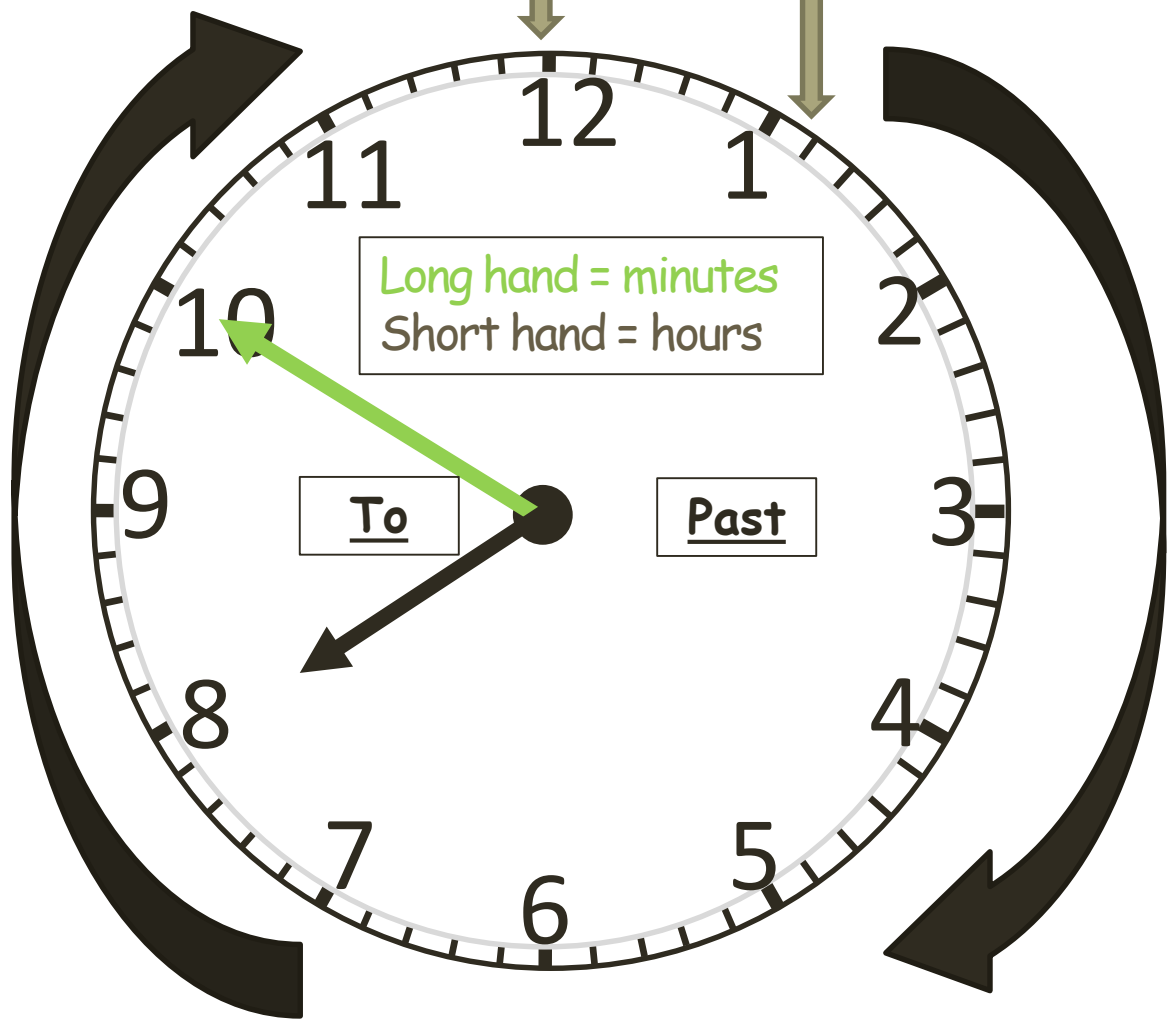| 1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60

5 times table

1 x 5 =   5
2 x 5 = 10
3 x 5 = 15
4 x 5 = 20
5 x 5 = 25
6 x 5 = 30
7 x 5 = 35
8 x 5 = 40
9 x 5 = 45
10 x 5 = 50
11 x 5 = 55
12 x 5 = 60

Timestables.co.uk

L.O. Reading analogue time (to)

Hours

Minutes

Step 1 – Past or To
(what side is the minute hand on?)

Step 2 – How many minutes?

5 times table
1 x 5 = 5
2 x 5 = 10
3 x 5 = 15
4 x 5 = 20
5 x 5 = 25
6 x 5 = 30
7 x 5 = 35
8 x 5 = 40
9 x 5 = 45
10 x 5 = 50
11 x 5 = 55
12 x 5 = 60
Timestables.co.uk

Step 3 – What hour?

Past	Hour=Number the hour hand has past.
To	Hour=Number the hour is heading towards.

Long hand = minutes
Short hand = hours

To

Past

Answer =

| Name- | | Date- | | GREEN Group |

L.O. Reading analogue time (to)

Hours

Minutes

Step 1 – Past or To
(what side is the minute hand on?)

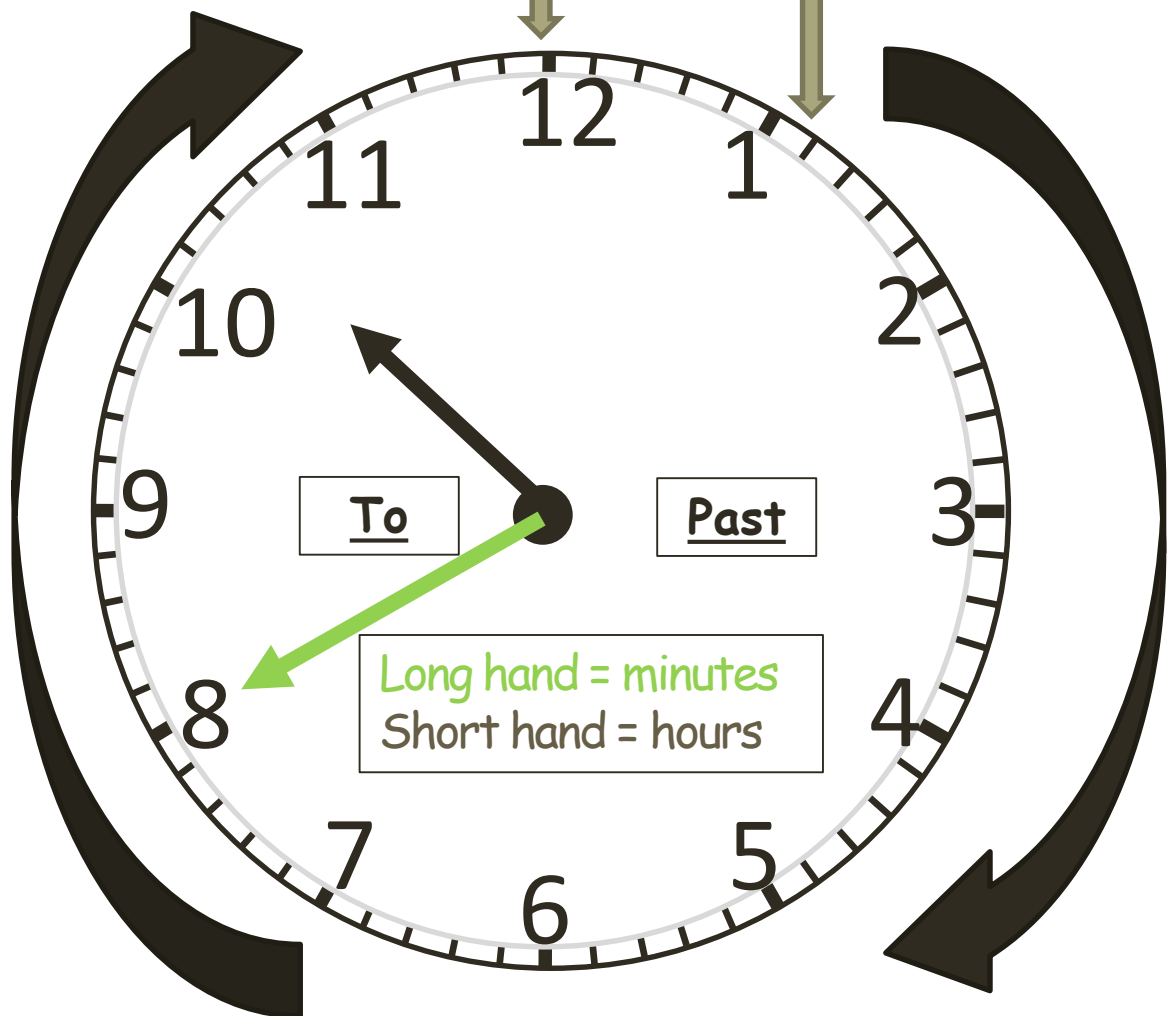**Step 2 – How many minutes?**

5 times table
1 x 5 = 5
2 x 5 = 10
3 x 5 = 15
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6 x 5 = 30
7 x 5 = 35
8 x 5 = 40
9 x 5 = 45
10 x 5 = 50
11 x 5 = 55
12 x 5 = 60
Timestables.co.uk

Step 3 – What hour?

| Past | Hour=Number the hour hand has past. |
| To | Hour=Number the hour is heading towards. |

To

Past

Long hand = minutes
Short hand = hours

Answer =

| Name- | Date- | GREEN Group |

L.O. Reading analogue time (to)

Hours

Minutes

**Step 1 – Past or To
(what side is the minute
hand on?)**

**Step 2 – How many
minutes?**

Step 3 – What hour?

Past	Hour=Number the hour hand has past.
To	Hour=Number the hour is heading towards.

Long hand = minutes
Short hand = hours

To

Past

Answer =

Name-	Date-	GREEN Group

L.O. Reading analogue time (to)

Hours

Minutes

Step 1 – Past or To
(what side is the minute hand on?)

Step 2 – How many minutes?

Step 3 – What hour?

Past	Hour=Number the hour hand has past.
To	Hour=Number the hour is heading towards.

Long hand = minutes
Short hand = hours

To

Past

Answer =

| Name- | Date- | GREEN Group |

L.O. Reading analogue time (to)

Hours

Minutes

5 times table
1 x 5 = 5
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Timestables.co.uk

Step 3 – What hour?

| Past | Hour=Number the hour hand has past. |
| To | Hour=Number the hour is heading towards. |

To

Past

Long hand = minutes
Short hand = hours

Answer =

L.O. To be able to read 12 hour analogue time (past and to).
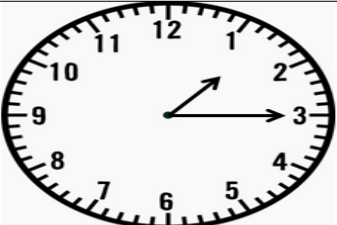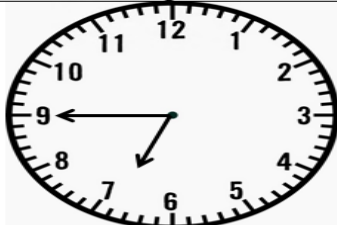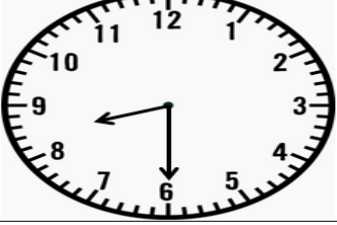
L.O. To be able to convert 12 hour analogue time to 12 hour digital format

Green Group
Ext Work

Write out each of these as digital times, using the 12-hour clock.
All of these times are in the **morning**.

:

:

:

:

:

:

Remember-
Step 1-Take the hour hand back to the previous hour.
Step 2-Count the minutes clockwise from 12

Blue Group

Please write your name, date and learning objective at the top of a piece of paper.

Learning Objective
"To be able to read analogue time (past and to)"

Please write your answers on this piece of paper.

Prompt Sheet

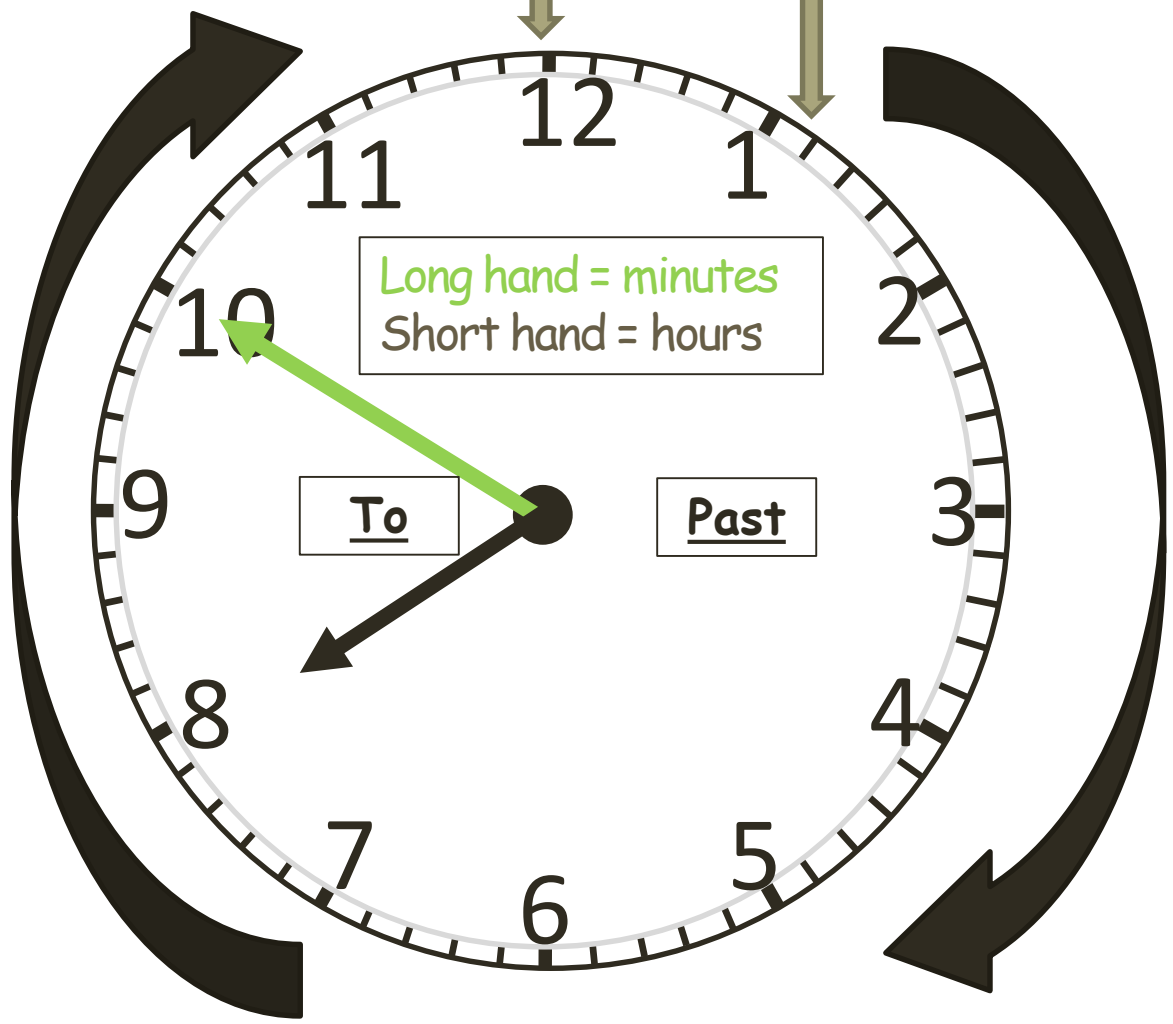| 1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
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31	32	33	34	35	36	37	38	39	40
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51	52	53	54	55	56	57	58	59	60

5 times table

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6 x 5 = 30
7 x 5 = 35
8 x 5 = 40
9 x 5 = 45
10 x 5 = 50
11 x 5 = 55
12 x 5 = 60

Timestables.co.uk

Remember

- Follow the sequence.

Step 1 – Past or To
(what side is the minute hand on?)

Step 2 – How many minutes?

Step 3 – What hour?

Past	Hour=Number the hour hand has past.
To	Hour=Number the hour is heading towards.

Name-

Date-

BLUE Group

L.O. Reading analogue time (to)

Hours

Minutes

Step 1 – Past or To
(what side is the minute hand on?)

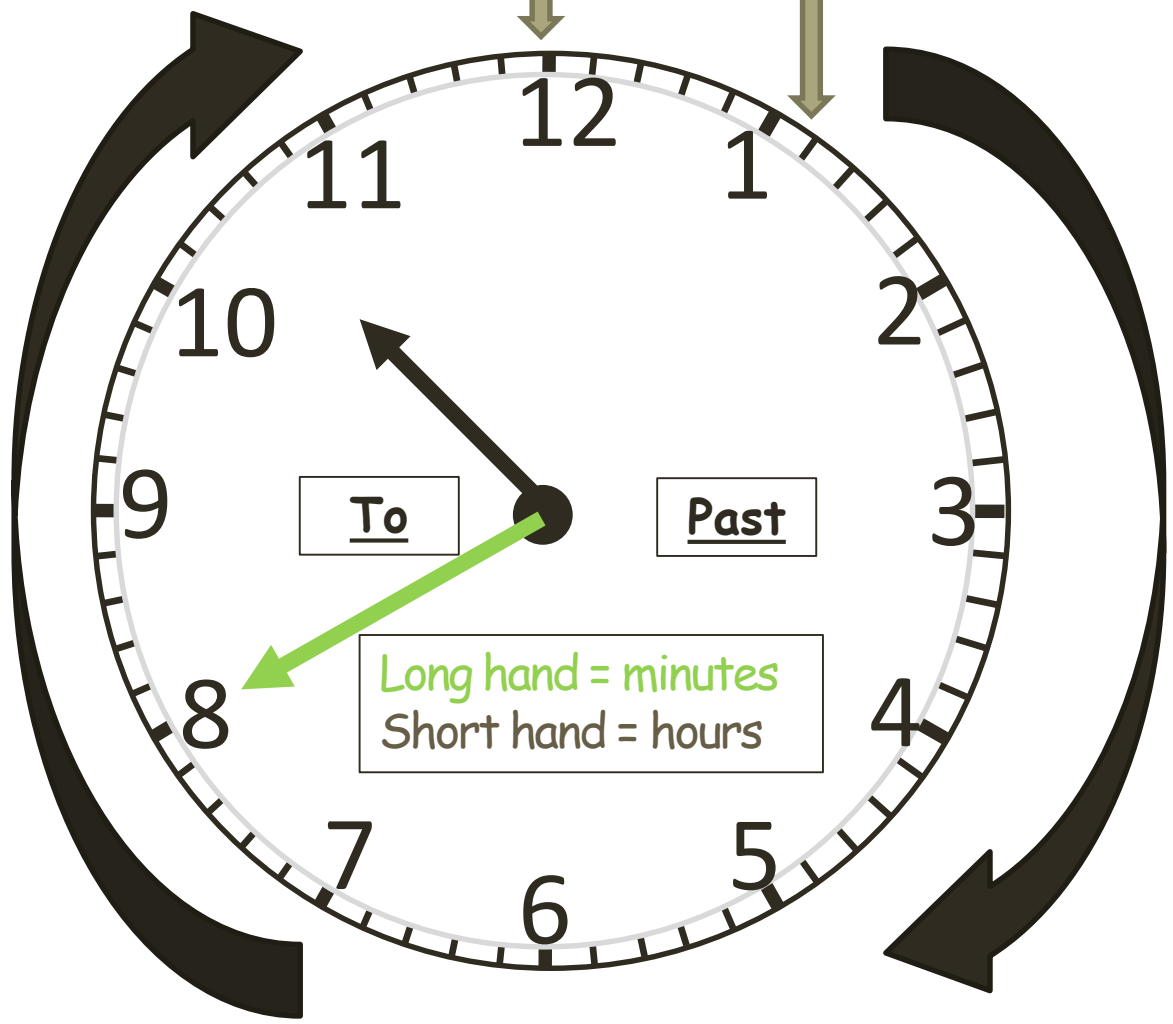**Step 2 – How many minutes?**

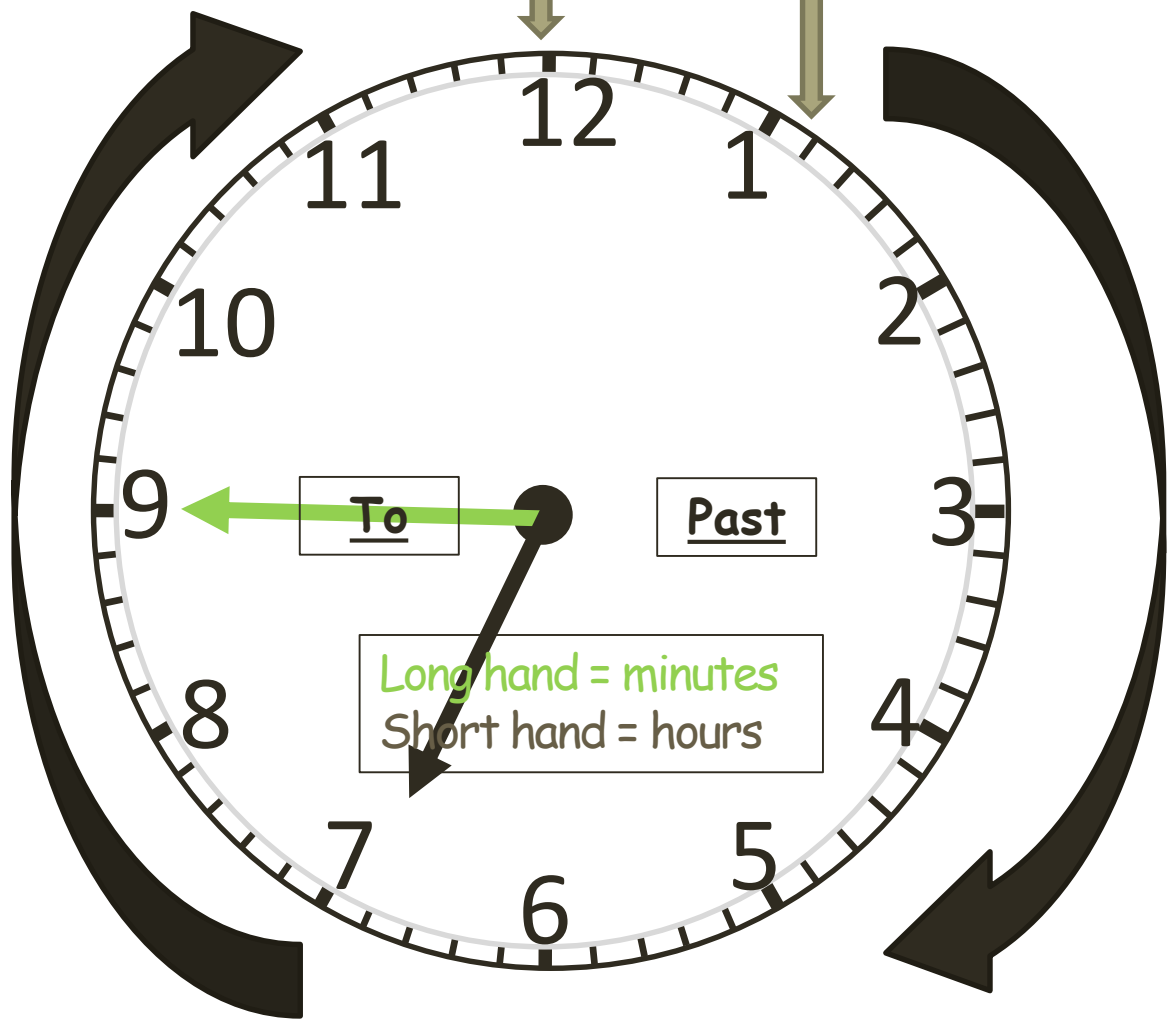5 times table
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7 x 5 = 35
8 x 5 = 40
9 x 5 = 45
10 x 5 = 50
11 x 5 = 55
12 x 5 = 60
Timestables.co.uk

Step 3 – What hour?

Past	Hour=Number the hour hand has past.
To	Hour=Number the hour is heading towards.

Long hand = minutes
Short hand = hours

To

Past

Answer =

| Name- | | Date- | | BLUE Group |

L.O. Reading analogue time (to)

Step 1 – Past or To
(what side is the minute hand on?)

Step 2 – How many minutes?

Step 3 – What hour?

Past	Hour=Number the hour hand has past.
To	Hour=Number the hour is heading towards.

Hours

Minutes

To   **Past**

Long hand = minutes
Short hand = hours

12 11 10 9 8 7 6 5 4 3 2 1

Answer =

| Name- | Date- | BLUE Group |

L.O. Reading analogue time (to)

Step 1 – Past or To
(what side is the minute hand on?)

Step 2 – How many minutes?

Step 3 – What hour?

| Past | Hour=Number the hour hand has past. |
| To | Hour=Number the hour is heading towards. |

Hours

Minutes

To   Past

Long hand = minutes
Short hand = hours

Answer =

Name-	Date-	BLUE Group

L.O. Reading analogue time (to)

Step 1 – Past or To
(what side is the minute hand on?)

Step 2 – How many minutes?

5 times table
1 x 5 = 5
2 x 5 = 10
3 x 5 = 15
4 x 5 = 20
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6 x 5 = 30
7 x 5 = 35
8 x 5 = 40
9 x 5 = 45
10 x 5 = 50
11 x 5 = 55
12 x 5 = 60
Timestables.co.uk

Step 3 – What hour?

Past	Hour=Number the hour hand has past.
To	Hour=Number the hour is heading towards.

Hours

Minutes

Long hand = minutes
Short hand = hours

To   Past

Answer =

L.O. Reading analogue time (to)

Step 1 – Past or To
(what side is the minute hand on?)

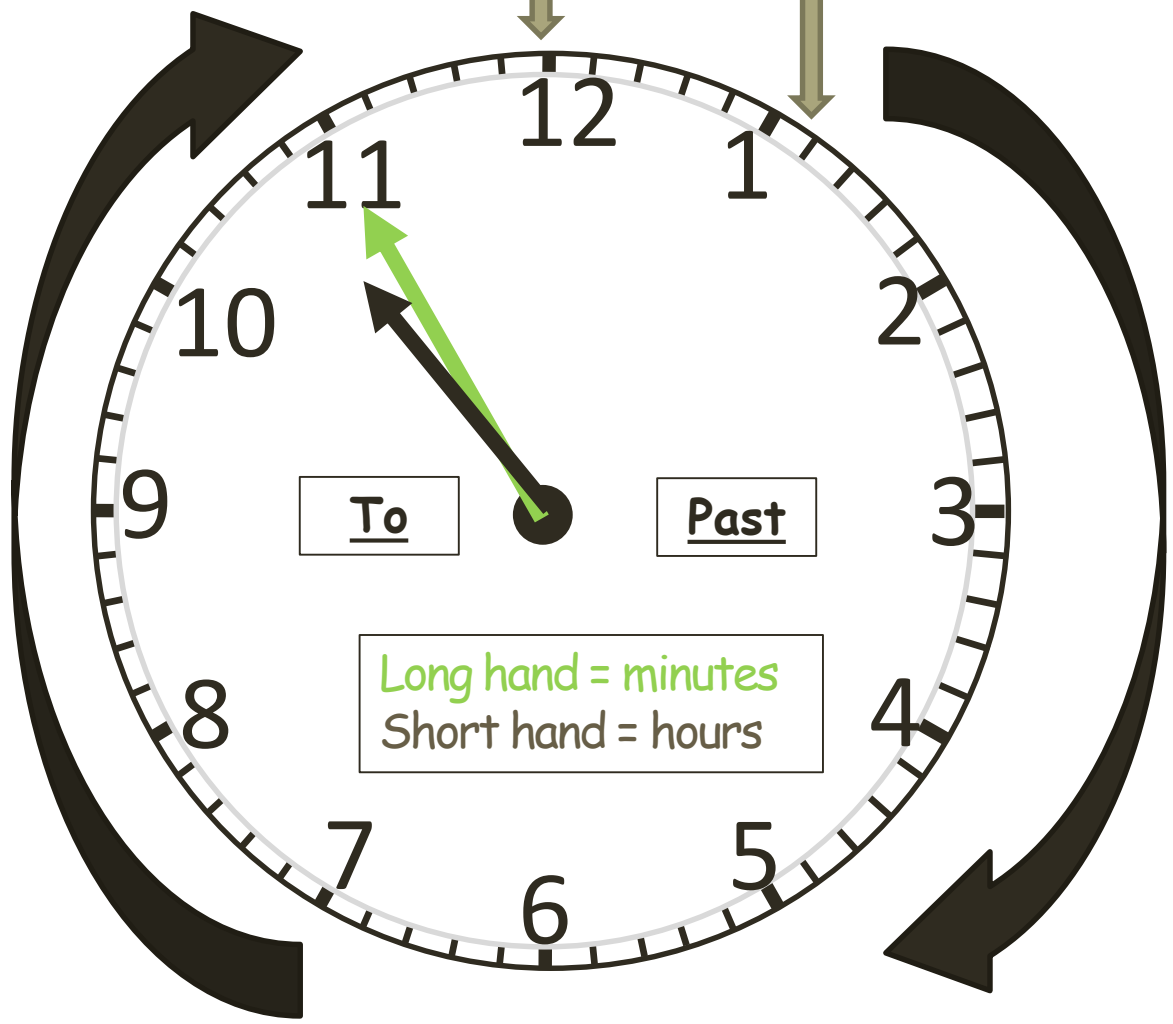**Step 2 – How many minutes?**

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6 x 5 = 30
7 x 5 = 35
8 x 5 = 40
9 x 5 = 45
10 x 5 = 50
11 x 5 = 55
12 x 5 = 60
Timestables.co.uk

Step 3 – What hour?

Past	Hour=Number the hour hand has past.
To	Hour=Number the hour is heading towards.

Hours

Minutes

To   Past

Long hand = minutes
Short hand = hours

Answer =

Extension Work

Once you have completed your Blue group work you may attempt the Green group work if you wish.

Purple Group

Please write your name, date and learning objective at the top of a piece of paper.

Learning Objective
"To be able to read analogue time (past and to)"

Please write your answers on this piece of paper.

Remember

- Follow the sequence.

Step 1 – Past or To
(what side is the minute hand on?)

Step 2 – How many minutes?

Step 3 – What hour?

Past	Hour=Number the hour hand has past.
To	Hour=Number the hour is heading towards.

Prompt Sheet

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60

5 times table

1 x 5 =   5
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11 x 5 = 55
12 x 5 = 60

Timestables.co.uk

L.O. Reading analogue time (to)

Hours

Minutes

Step 1 – Past or To
(what side is the minute hand on?)

Step 2 – How many minutes?

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
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5 times table
1 x 5 = 5
2 x 5 = 10
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5 x 5 = 25
6 x 5 = 30
7 x 5 = 35
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9 x 5 = 45
10 x 5 = 50
11 x 5 = 55
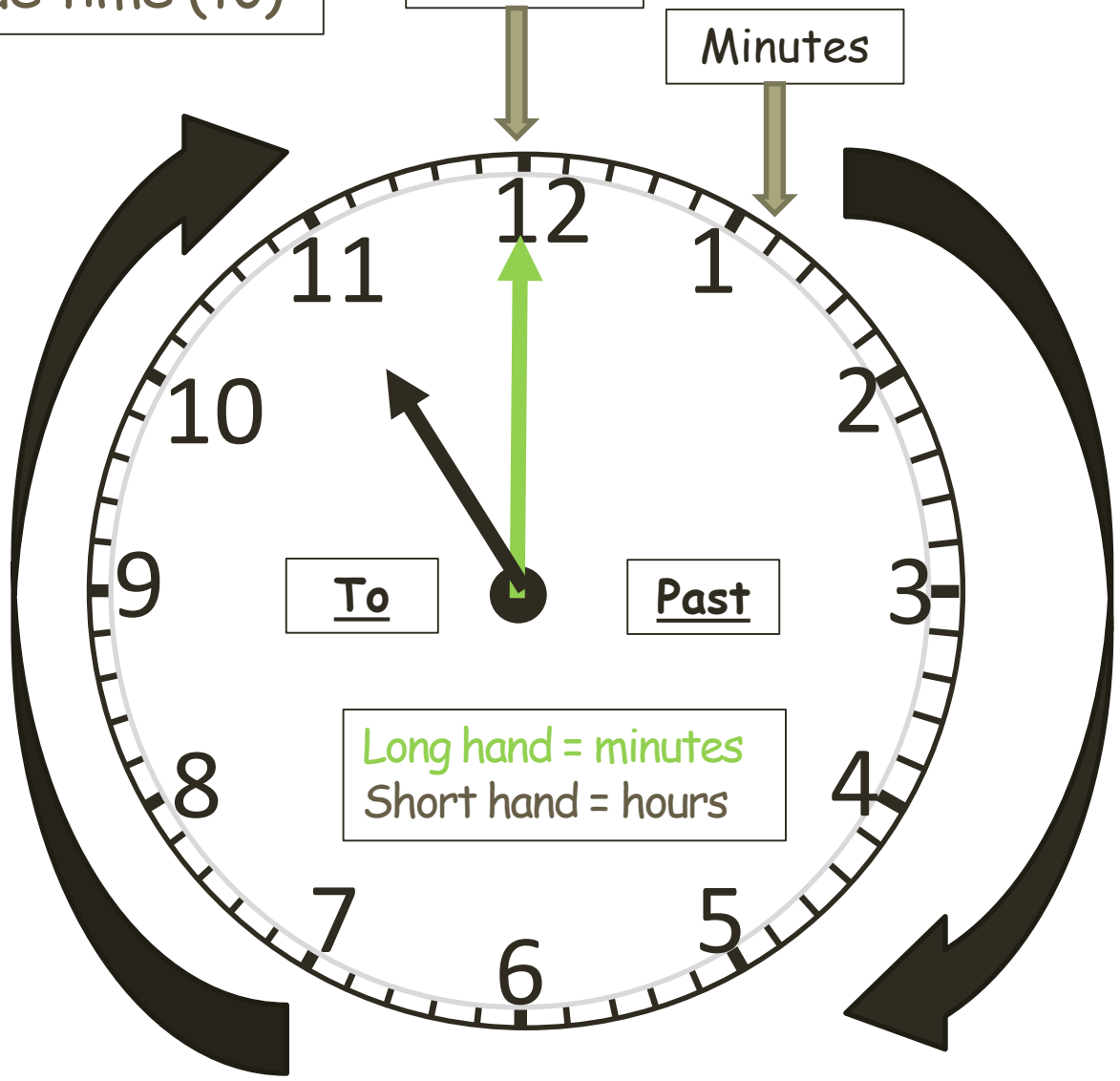12 x 5 = 60
Timestables.co.uk

Step 3 – What hour?

Past	Hour=Number the hour hand has past.
To	Hour=Number the hour is heading towards.

To

Past

Long hand = minutes
Short hand = hours

Answer =

Name-		Date-		Purple Group

L.O. Reading analogue time (to)

Hours

Minutes

Step 1 – Past or To
(what side is the minute hand on?)

Step 2 – How many minutes?
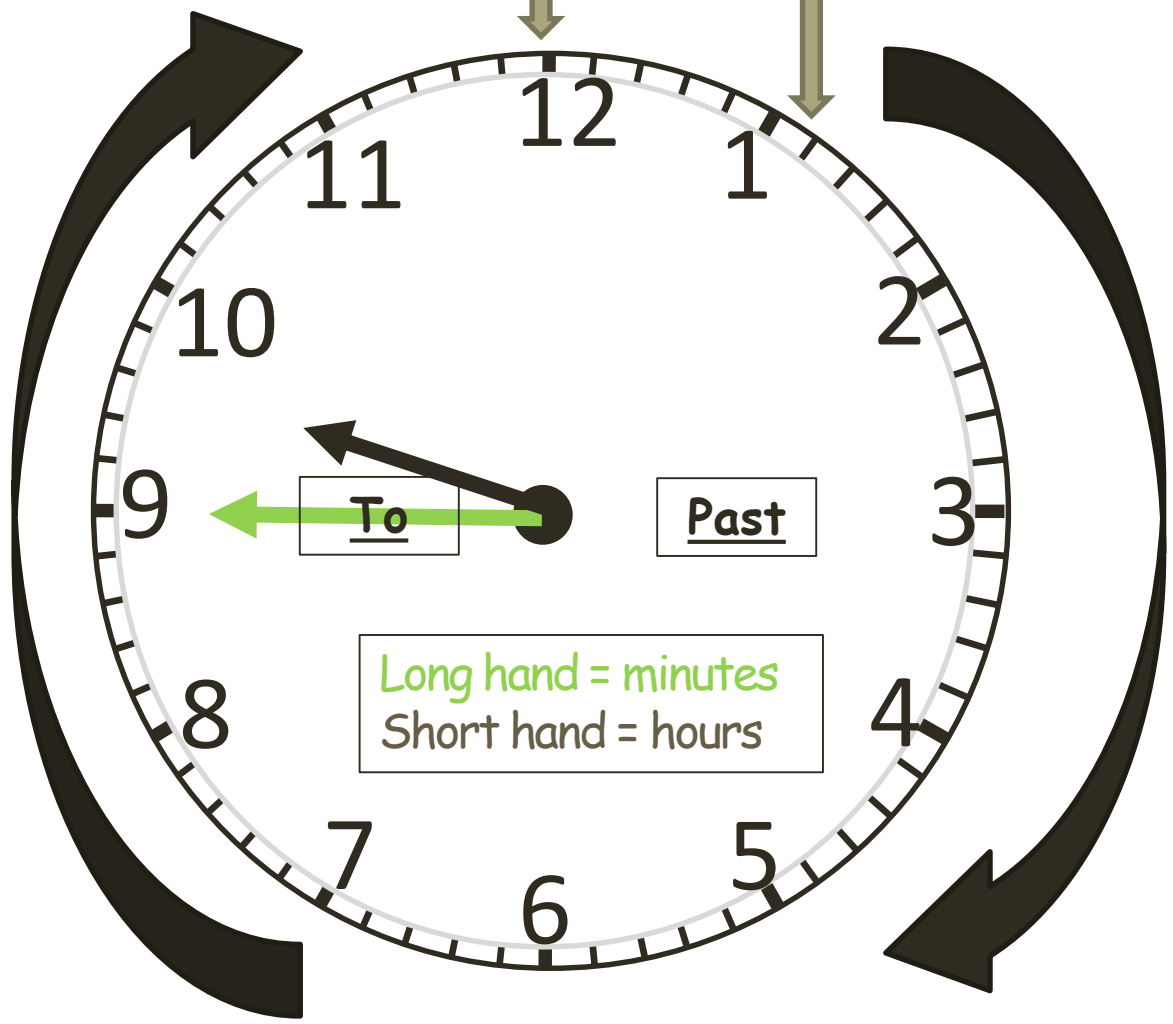
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12 x 5 = 60
Timestables.co.uk

Step 3 – What hour?

Past	Hour=Number the hour hand has past.
To	Hour=Number the hour is heading towards.

To

Past

Long hand = minutes
Short hand = hours

Answer =

or =

Name-		Date-		Purple Group

L.O. Reading analogue time (to)

Minutes

Step 1 – Past or To
(what side is the minute hand on?)

Step 2 – How many minutes?

5 times table
1 x 5 = 5
2 x 5 = 10
3 x 5 = 15
4 x 5 = 20
5 x 5 = 25
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7 x 5 = 35
8 x 5 = 40
9 x 5 = 45
10 x 5 = 50
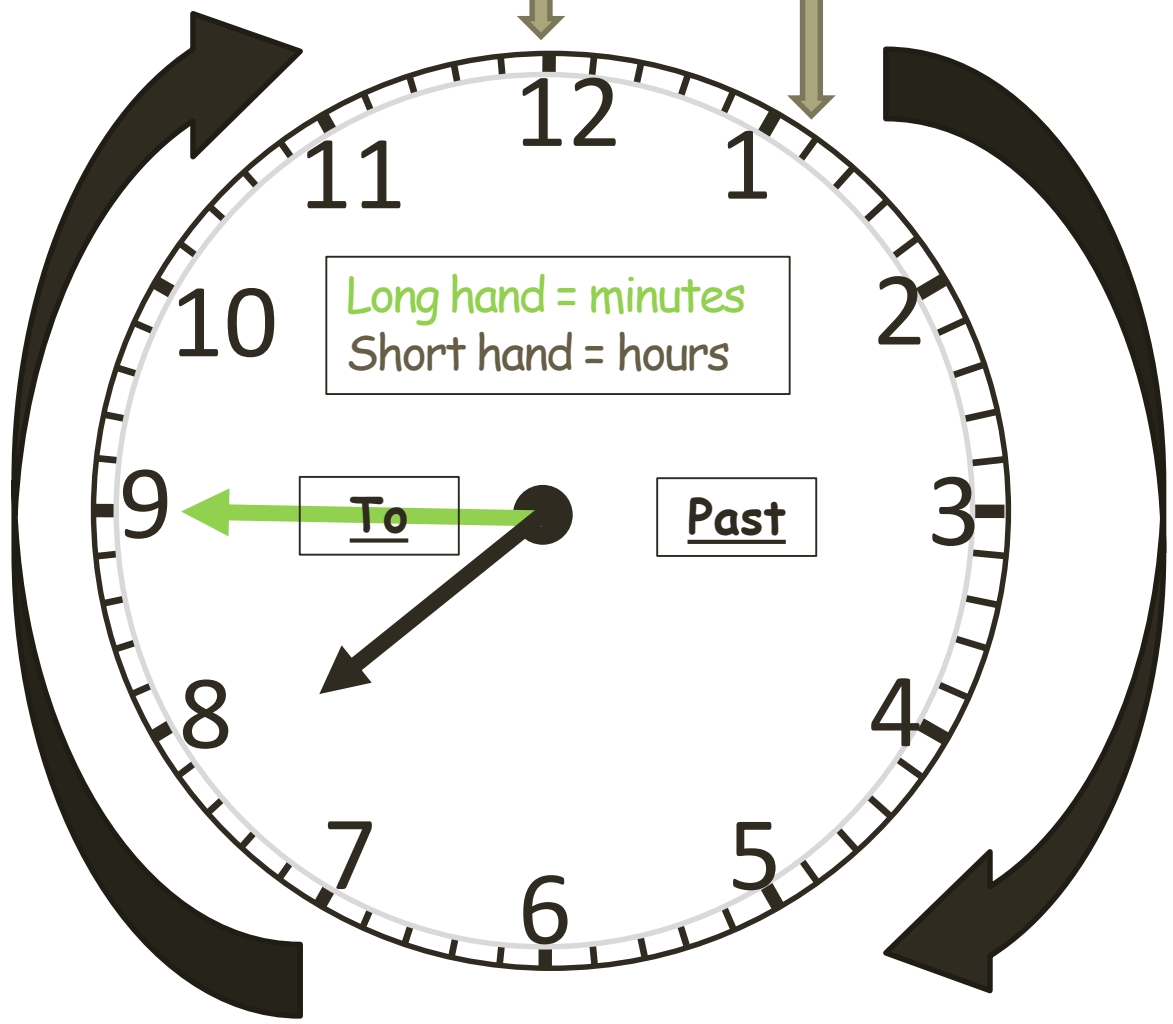11 x 5 = 55
12 x 5 = 60
Timestables.co.uk

Long hand = minutes
Short hand = hours

To   Past

Step 3 – What hour?

Past	Hour=Number the hour hand has past.
To	Hour=Number the hour is heading towards.

Answer =	or =

Name-   Date-   Purple Group

L.O. Reading analogue time (to)

**Step 1 – Past or To
(what side is the minute hand on?)**

To   Past
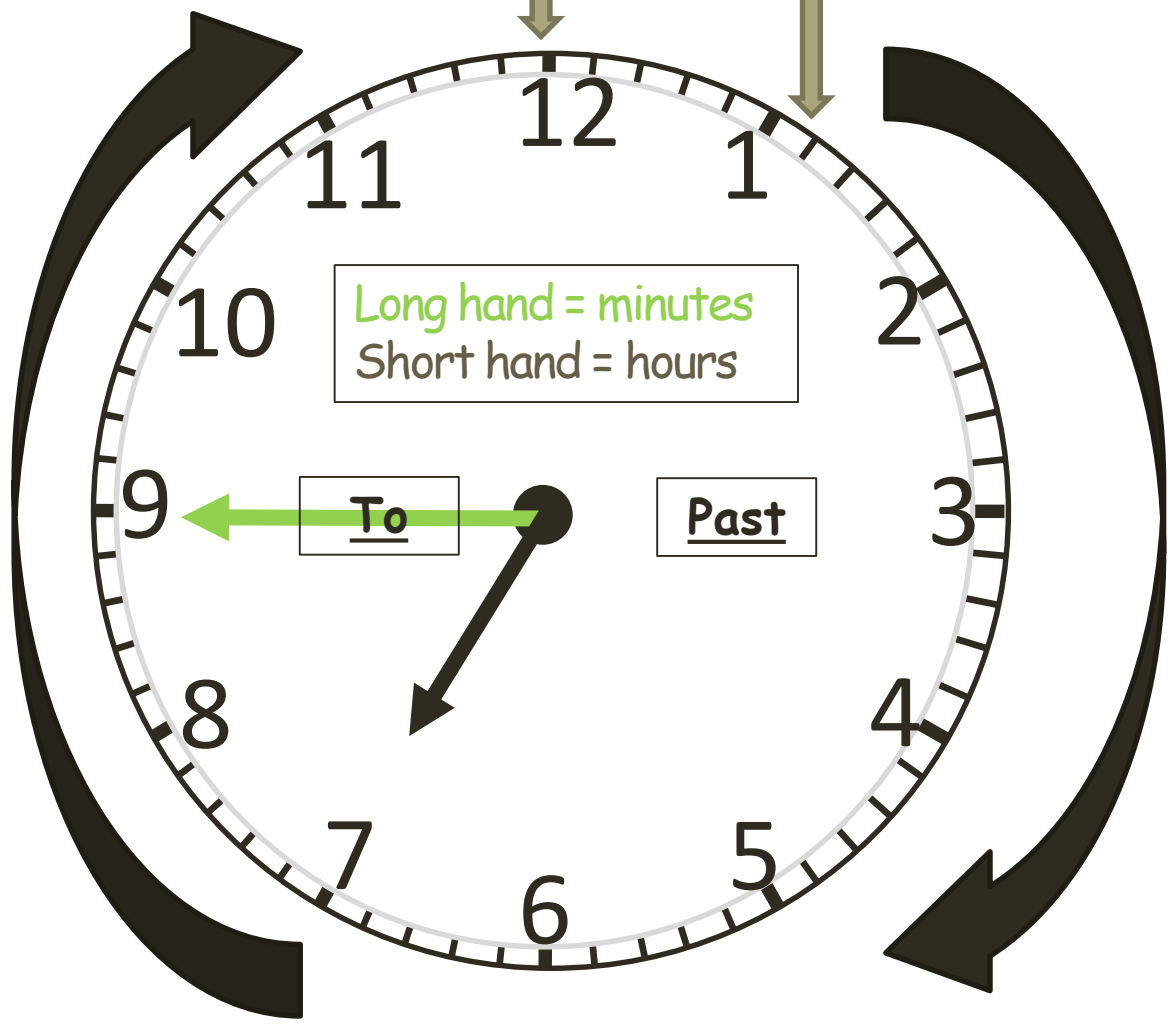
Step 2 – How many minutes?

5 times table
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6 x 5 = 30
7 x 5 = 35
8 x 5 = 40
9 x 5 = 45
10 x 5 = 50
11 x 5 = 55
12 x 5 = 60
Timestables.co.uk

Step 3 – What hour?

Past	Hour=Number the hour hand has past.
To	Hour=Number the hour is heading towards.

Long hand = minutes
Short hand = hours

To   Past

12 11 10 9 8 7 6 5 4 3 2 1

Answer =   or =

| Name- | Date- | Purple Group |

L.O. Reading analogue time (to)

Minutes

Step 1 – Past or To
(what side is the minute hand on?)

To   Past

Step 2 – How many minutes?
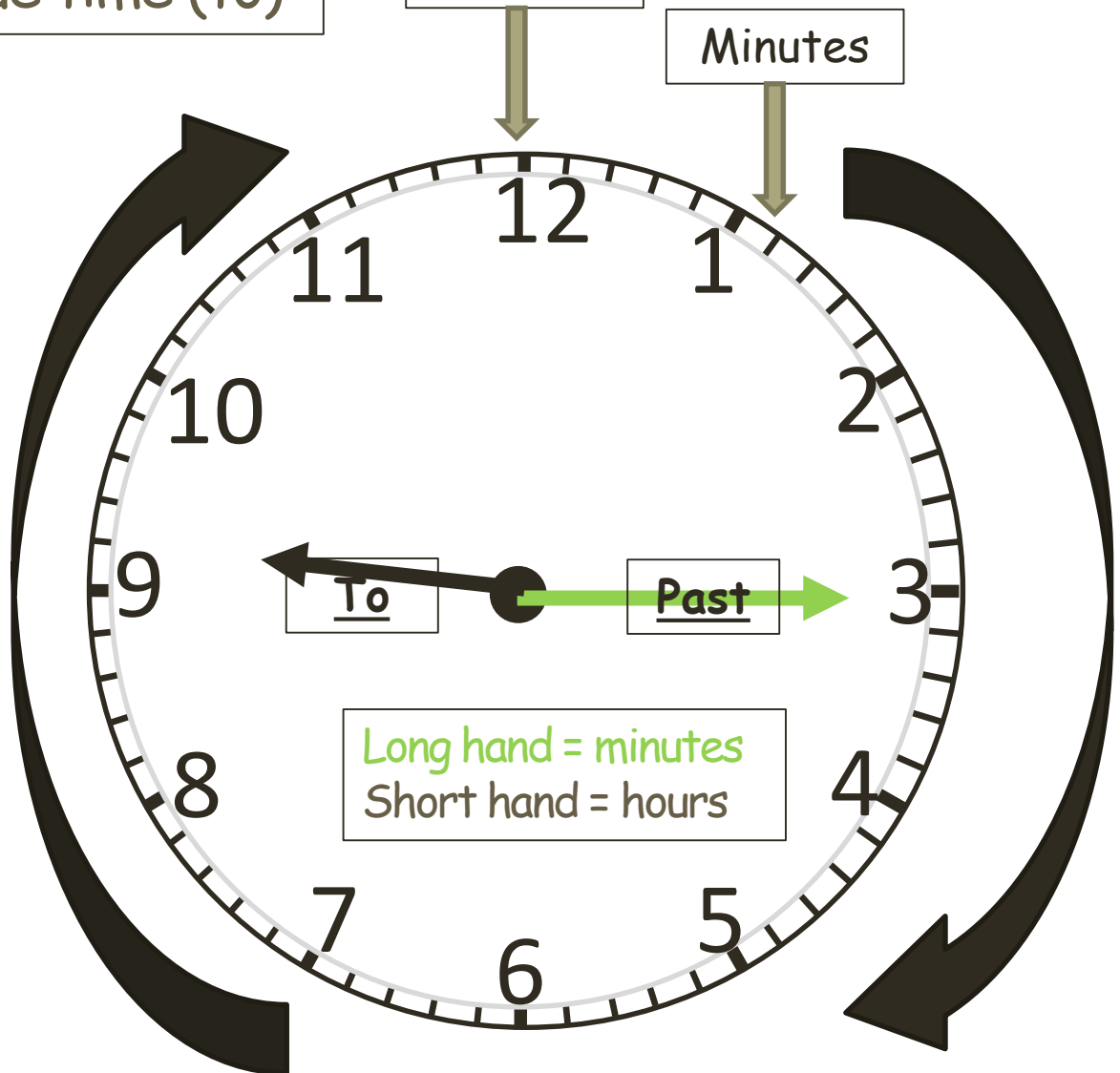

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7 x 5 = 35
8 x 5 = 40
9 x 5 = 45
10 x 5 = 50
11 x 5 = 55
12 x 5 = 60
Timestables.co.uk

Step 3 – What hour?

| Past | Hour=Number the hour hand has past. |
| To | Hour=Number the hour is heading towards. |

To   **Past**

Long hand = minutes
Short hand = hours

Answer =   or =

Extension Work

Once you have completed your Purple group work you may attempt the Blue group work if you wish.