

Mathematics Online Interview - Equipment Checklist

A full list of equipment needed for each section of the Mathematics Online Interview (MOI) is provided below. Printable resources, which are highlighted within the list, are also provided below. All other resources/equipment will need to be sourced by schools.

Equipment Checklist

Section A: Counting

- Small ice-cream container of small plastic teddy bears (approximately 100)
- Plastic cup (fitting 22-29 teddies)
- Small sealed plastic bag with collection of coins in it (1 x \$1.00; 1 x 50c; 3 x 20c; 5 x 10c; 5 x 5c; total \$2.85c)

Foundation Detour

- A collection of 40 teddies of mixed colours (plus a separated set of 4 yellow teddies, 5 red teddies, 3 green teddies, and 8 blue teddies)
- Eight pink dot cards including the blank card
- Pink cards with digits 0-9 and additional digits 3 & 4 cards
- Five plastic cups
- Nine straws
- Four white or yellow candles (2 cm diameter), of lengths 5cm, 10cm, 15cm and 20 cm (not tapered candles)

Section B: Place Value

- Teddies (from counting)
- Mauve cards with digits from 0-9
- White dot cards 0-9
- Large basic calculator
- Green, blue, yellow, pink and orange card sets
- Icy pole sticks (including eight bundles of ten and twenty loose icy pole sticks)
- '36' card
- Number lines: 2-digit (mauve) and 3- digit (white)
- White number cards with '592', '408', '2791' and '3027'
- Pink chart with Australian city populations
- Orange page of number lines

Section C: Addition and Subtraction

- Green teddies (from counting)
- Ice cream lid
- White, blue and yellow addition & subtraction problem cards
- Scrap paper and pencil for student work

Section D: Multiplication and Division

- Teddies (from counting)
- Four empty matchboxes
- Orange page with four teddy mats
- 5 unifix (all the same colour)
- Transparent, plastic container with three tennis balls inside it
- Red cards with dots (and thick, different coloured cover card)
- White multiplication and division cards (5×3 and $12 \div 4$)
- Pink window washing card
- Pink stamp collection card
- Mauve orchard problem card
- Scrap paper and pencil for student work

Section E: Time

- Children's own hand-drawn clocks (ideally, collected prior to interview)
- Moveable yellow clock
- Yellow June calendar card
- Green clock showing digital time 12:51
- Green excerpt from TV guide
- Green blank analogue and digital faces

Section F: Length Measurement

- 25cm wooden skewer (blunted)
- 30 cm piece of string
- 20 cm drinking straw
- 8 large paper clips (5 cm)
- 30 cm ruler
- Long 'straightened out' party streamers around 180cm, plus several exactly 93 cm long
- a pen for the streamer task

Section G: Mass Measurement

- A collection of seven objects (a piece of foam, a rock, two plastic containers [short & fat, tall & thin], a ball of string, a 810g tin of tomatoes, and a 1 kg weight) in a shoe box
- 20-gram mass (2 x 20c pieces stuck together with masking tape)
- A 1 kg weight or an object which weighs 1 kg (labelled 1 kg)
- Small film canister (or small container) filled with water (to weigh 40g)
- A set of balance scales
- At least eight 10g weights
- Kitchen scales (0 - 240g)
- 120 g object
- 1 kg brown rice in a plastic container
- Small scoop

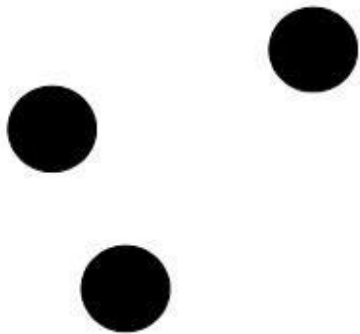
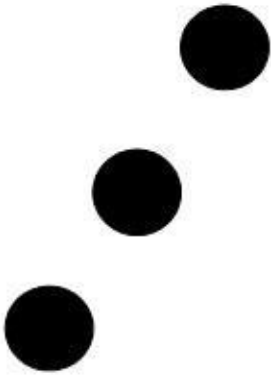
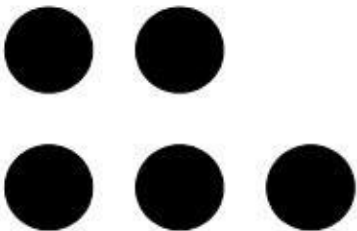
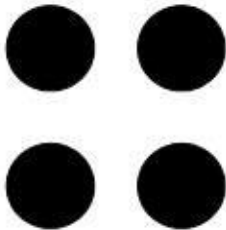
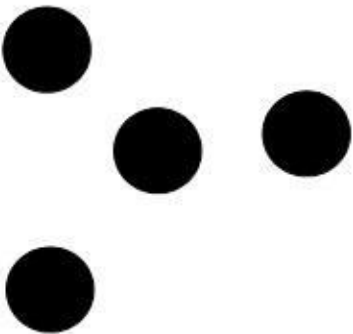
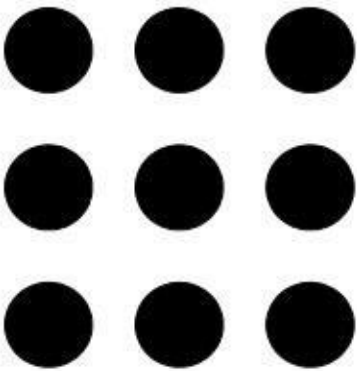
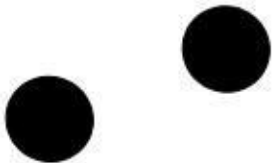
Section H: Properties of Shape

- Collection of eight small, mauve shapes on card (square, rectangle, circle triangles)

Section I: Visualisation

- Six of the eight small shapes cut from mauve card from Section H (square and circle are not needed)
- Dark blue page folded in half with part of a light pink triangle pasted inside the fold, revealing an isosceles triangle (ensure pink shape cannot be seen through blue page)
- Blue page with nine possible triangles
- Three mauve 'triad' cards
- Green, shaded puzzle card with blank square on it
- White page with pictures of main design and other shapes
- Kindergarten squares (one for teacher and one per child)

Pink (Detour)

Pink (Detour)

0

1

2

3

4

5

6

7

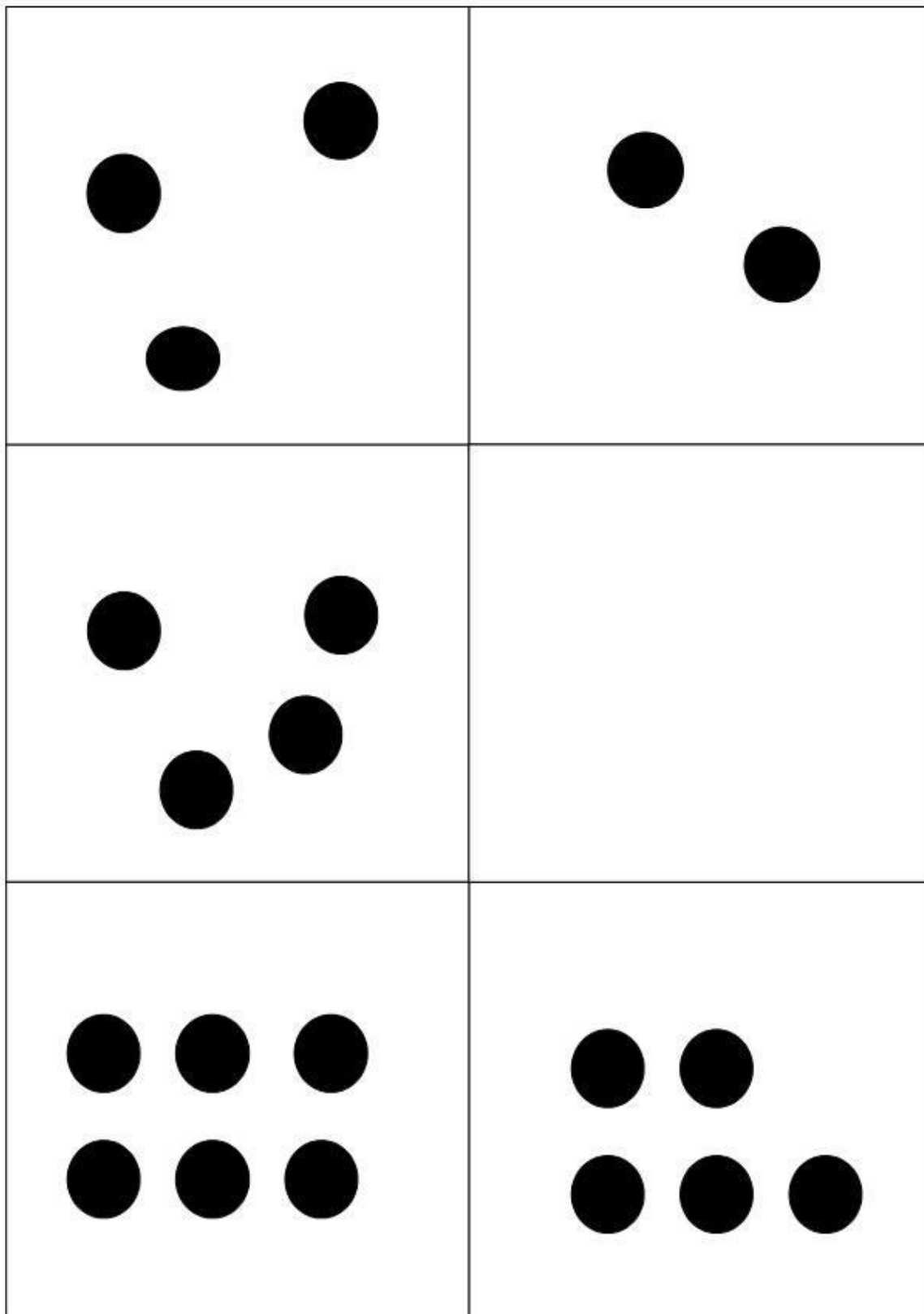
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9

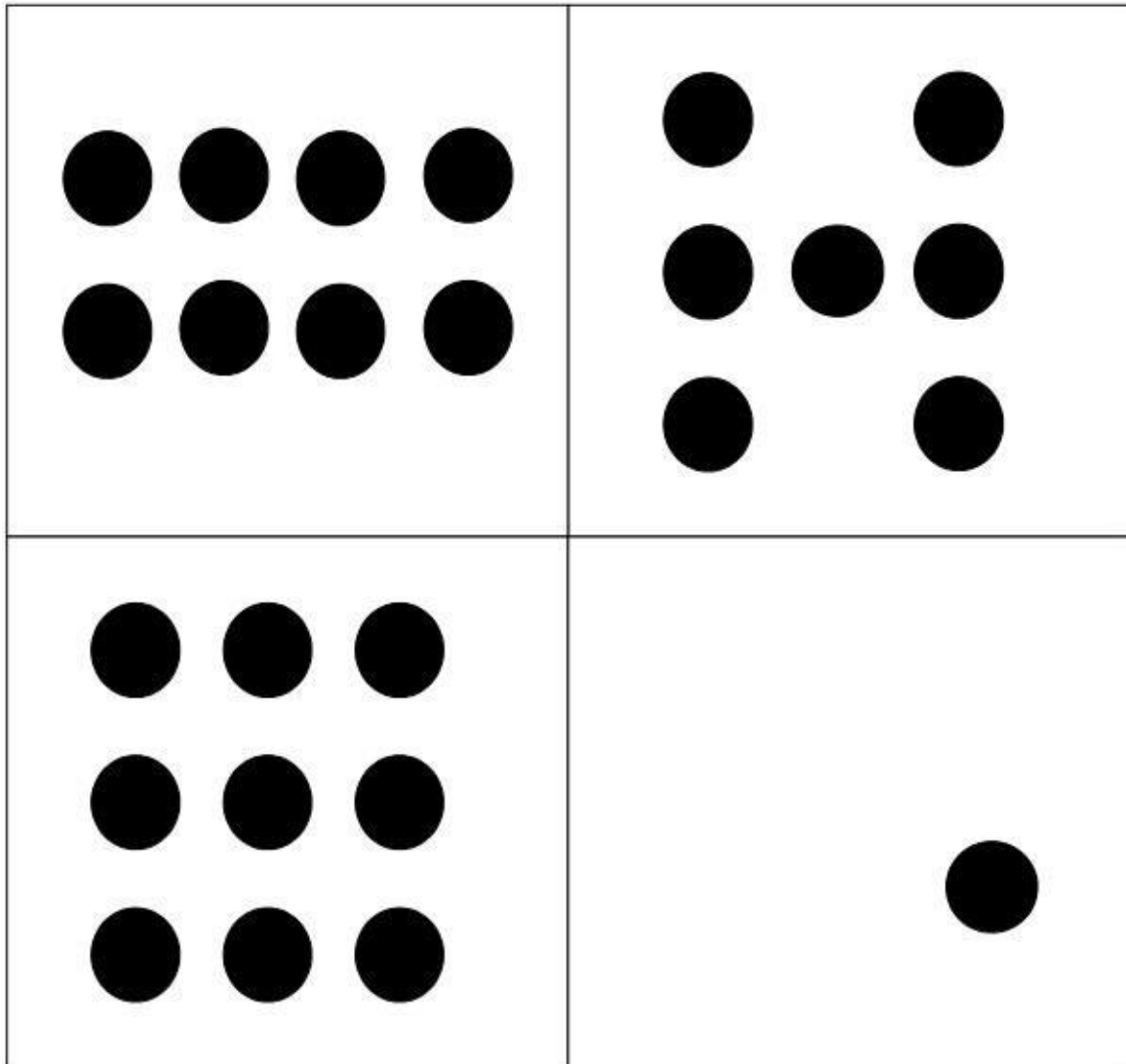
3

4

White Q 9



White Q 9



Green Q 8

3

8

36

83

18

147

407

1847

Mauve Q 9

0

1

2

3

4

5

6

7

8

9

Blue Q 11(a)

2

5

9

Yellow Q 11 (b)

36

19

74

156

813

403

97

Orange Q 11(d)

3956

3569

3659

White Q 12

36

X

White Q 15

592

X

White Q 16

408

Mauve Q 13



X-----

White Q 14



White Q 17

2791

X

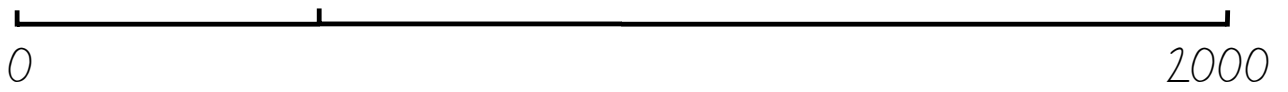
White Q 18

3027

Pink Q 19

Capital City	Population (June 2010)
Adelaide	1 203 186
Brisbane	2 043 185
Canberra	358 222
Darwin	127 532
Hobart	214 705
Melbourne	4 077 036
Perth	1 696 065
Sydney	4 575 532

Orange Q 20



White Q 26 (a), (b), (c)

$$68 + 32$$

$$25 + 99$$

$$100 - 68$$

Blue Q 27 (a), (b)

134 + 689

1246 - 358

Yellow Q 28

$$347 + 589$$

Yellow Q 29

$$642 - 376$$

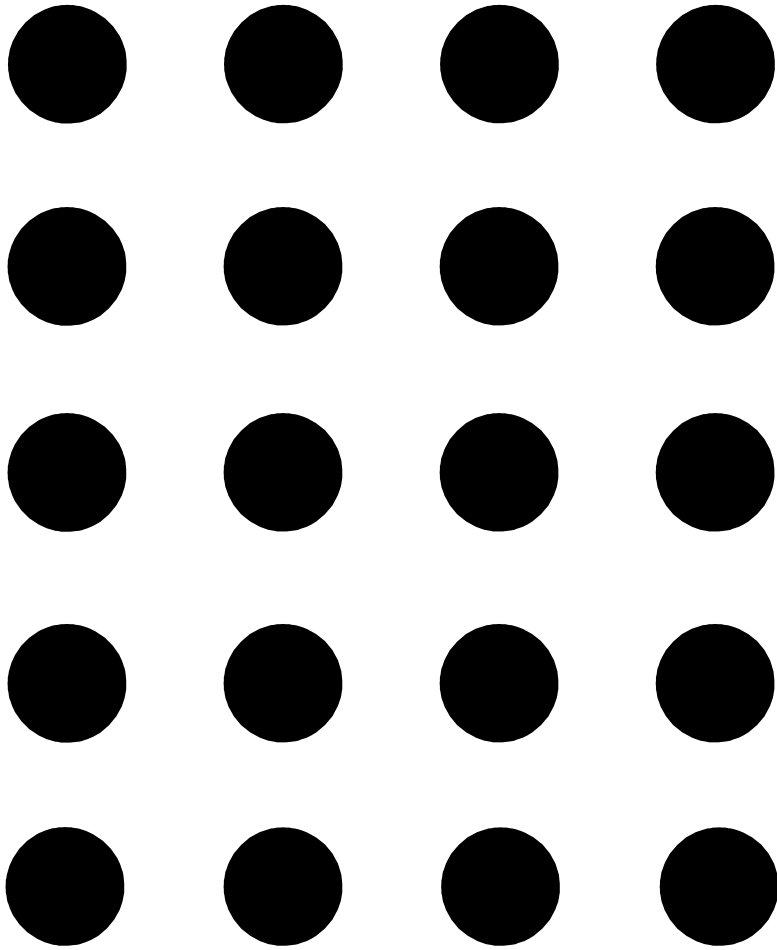
A rectangular box with a double black border. Inside the box, there are 30 horizontal dotted lines spaced evenly down the page, intended for handwriting practice.

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Red Q 34



White Q 38

$$5 \times 3$$

White Q 41

$$12 \div 4$$

Pink Q 43

*I washed 8 windows in 48 minutes. It took the same time to wash each window.
How long did it take me to wash one window?*



X

Pink Q 45

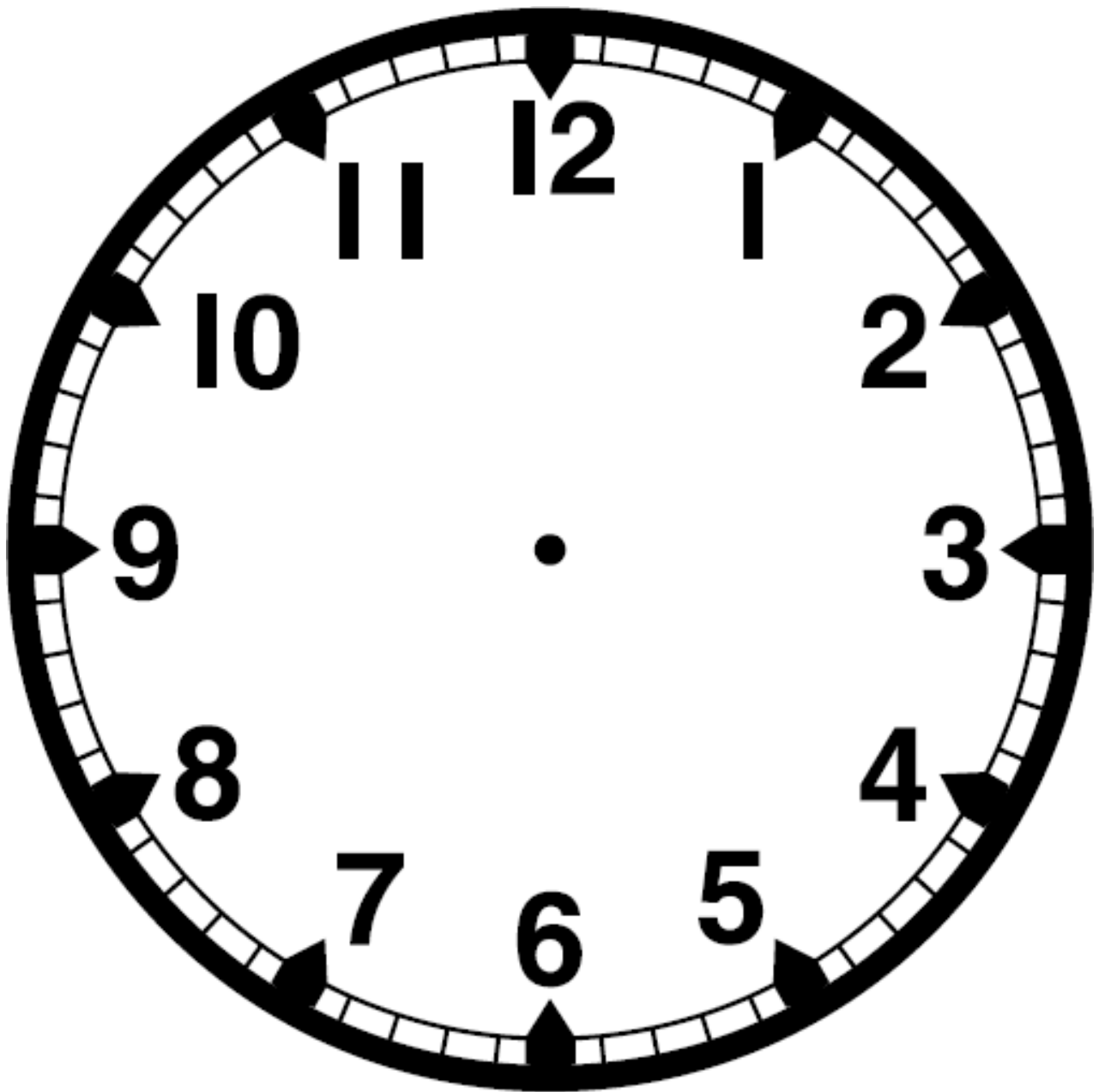
*Jamie collected 18 stamps.
Simone collected 5 times as many stamps.
How many stamps does Simone have?*



*A farmer planted 98 trees in rows.
14 trees were planted in each row.
How many rows of trees were there?*

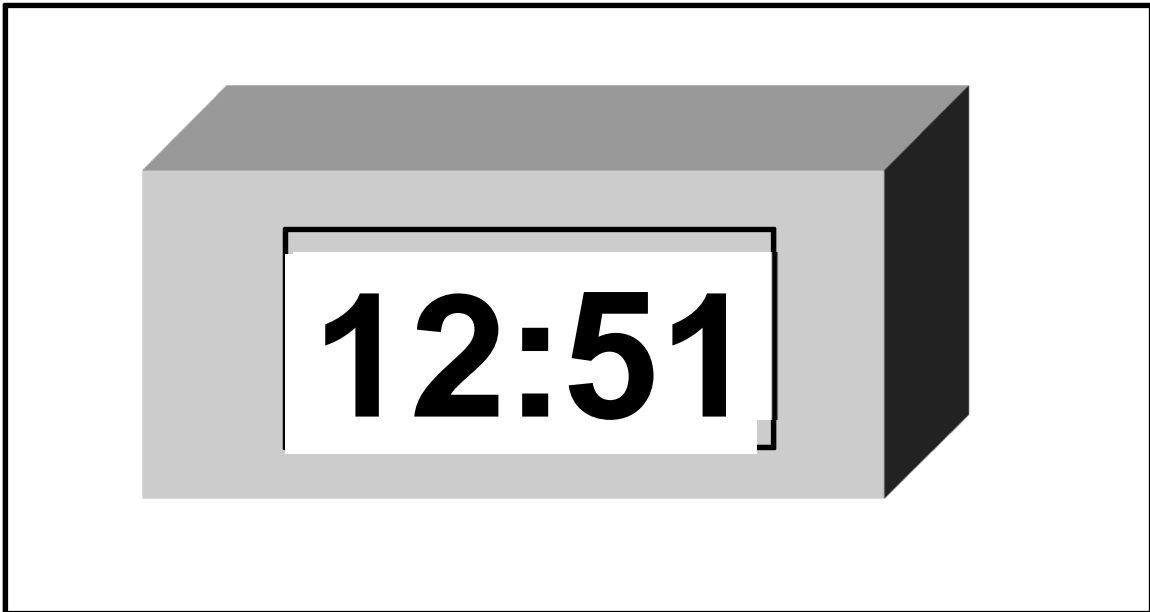


Yellow Q 48



JUNE						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		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			

Green Q 51



Green Q 52

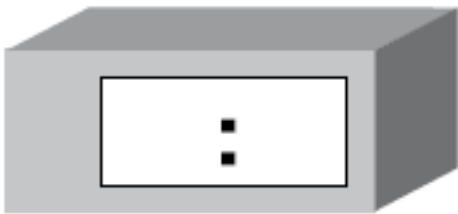
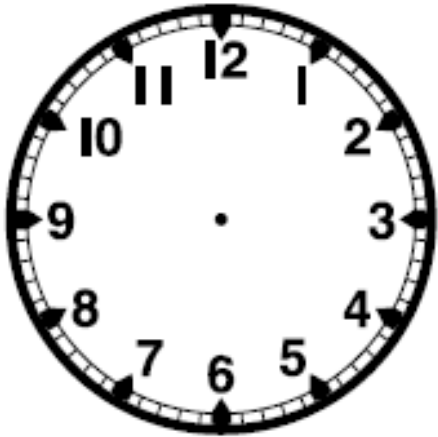
11:30 World News Tonight
With Sulie Desforges

11:50 Movie: Outback Adventure
1999 Australian adventure starring
Ivor Headache and Eva Brick.
A young family travels around
Australia by bicycle. (PG)

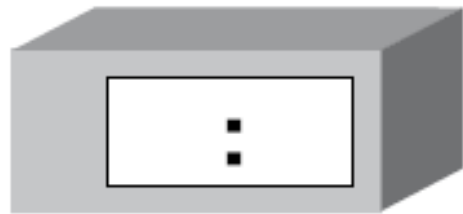
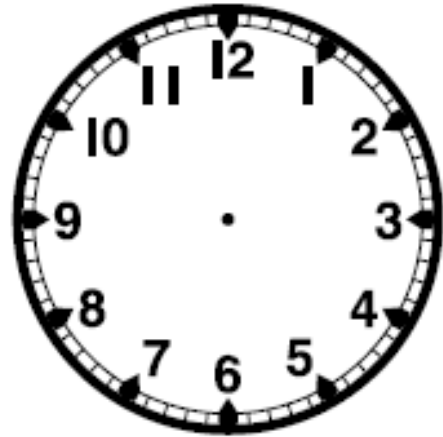
1:35 Weather Watch
Weather forecast for the next day

1:40 Station Close

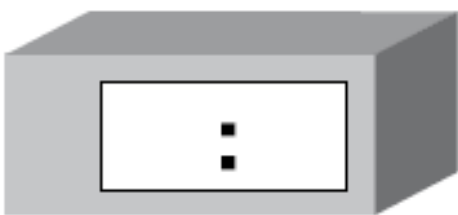
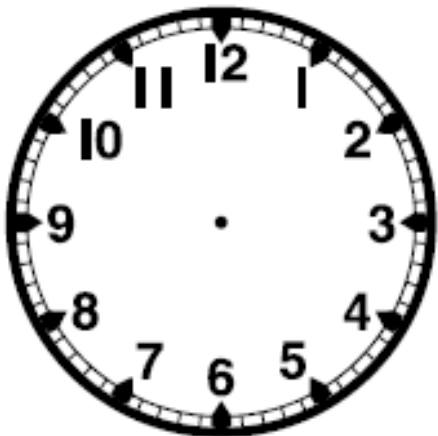
8 minutes to 5



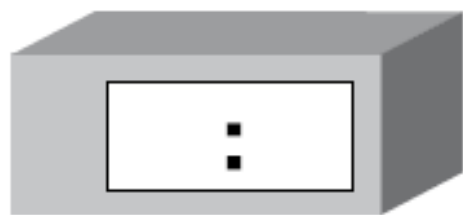
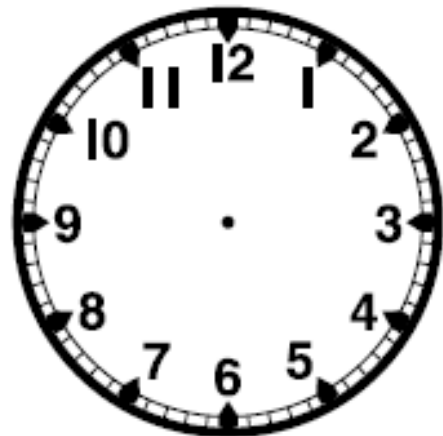
8 minutes to 5



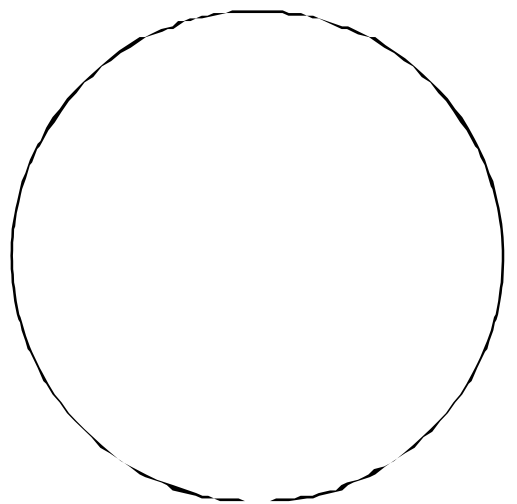
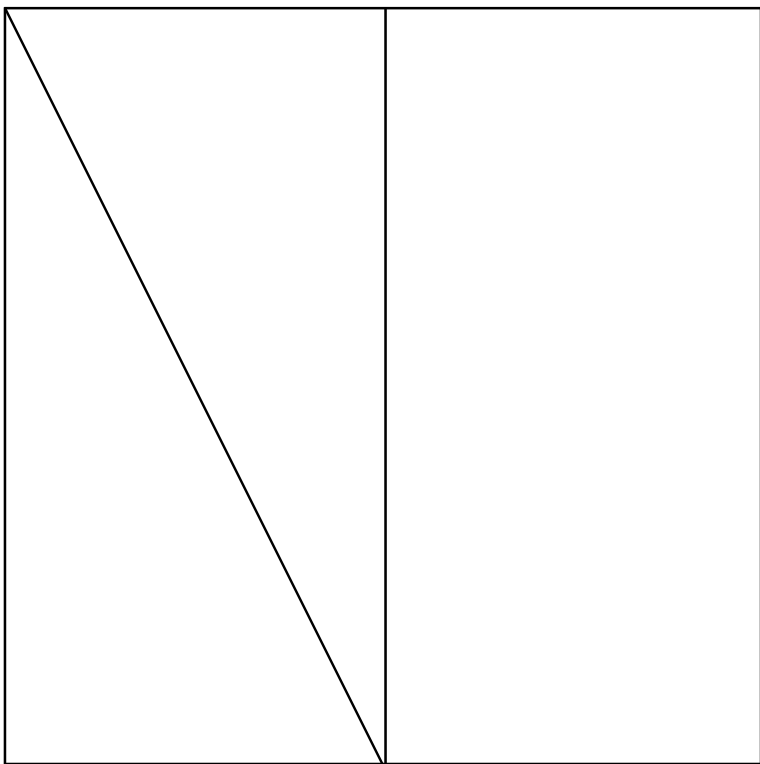
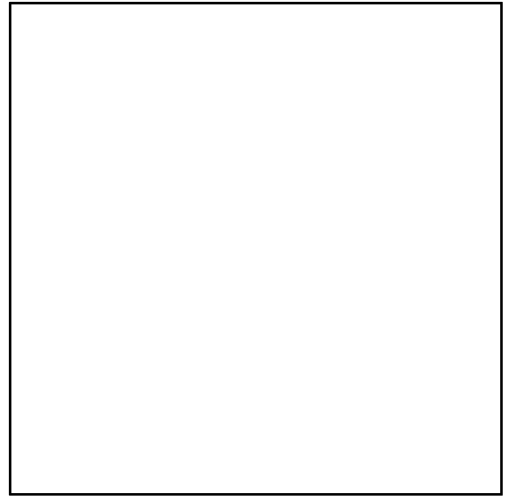
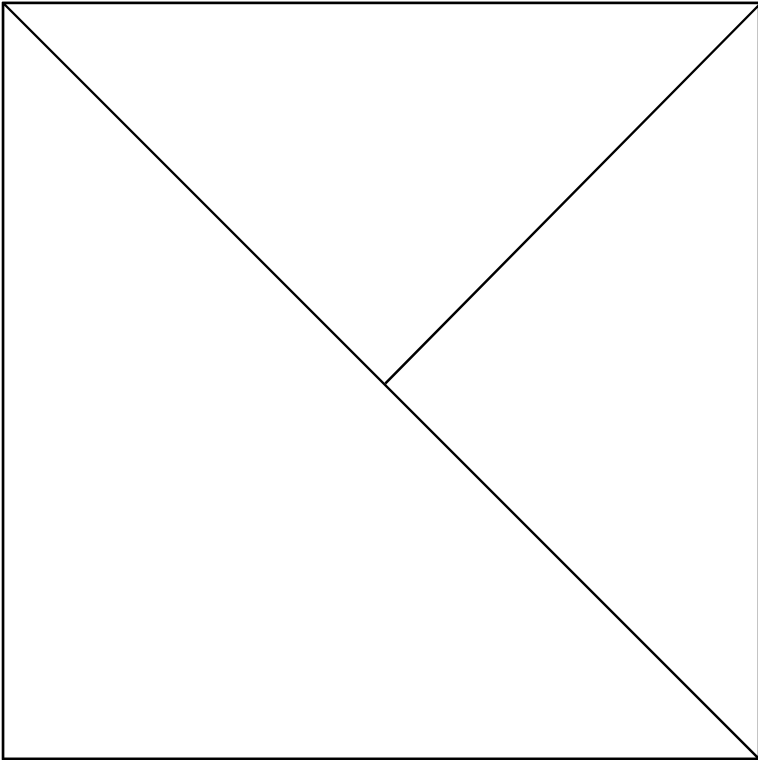
8 minutes to 5



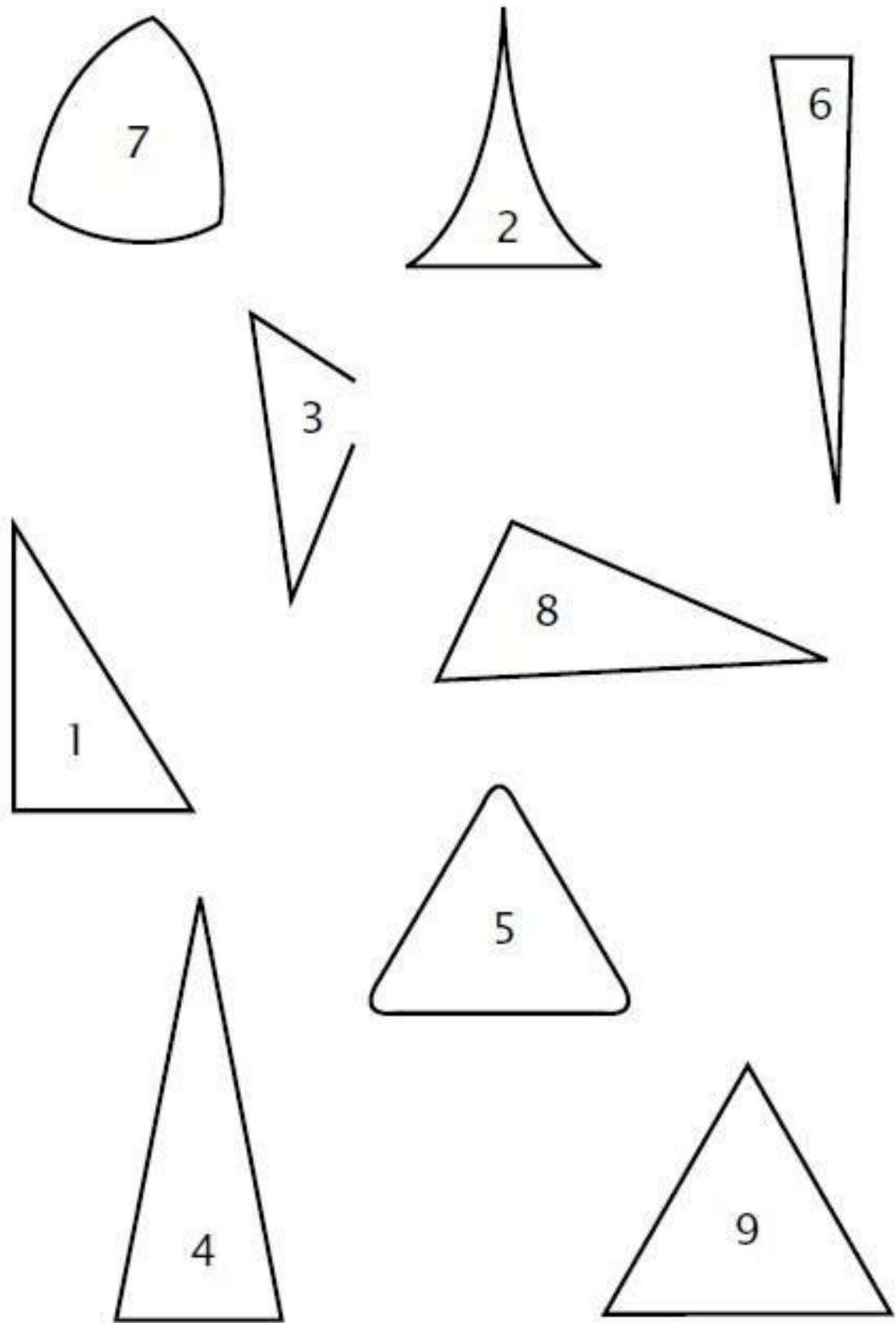
8 minutes to 5



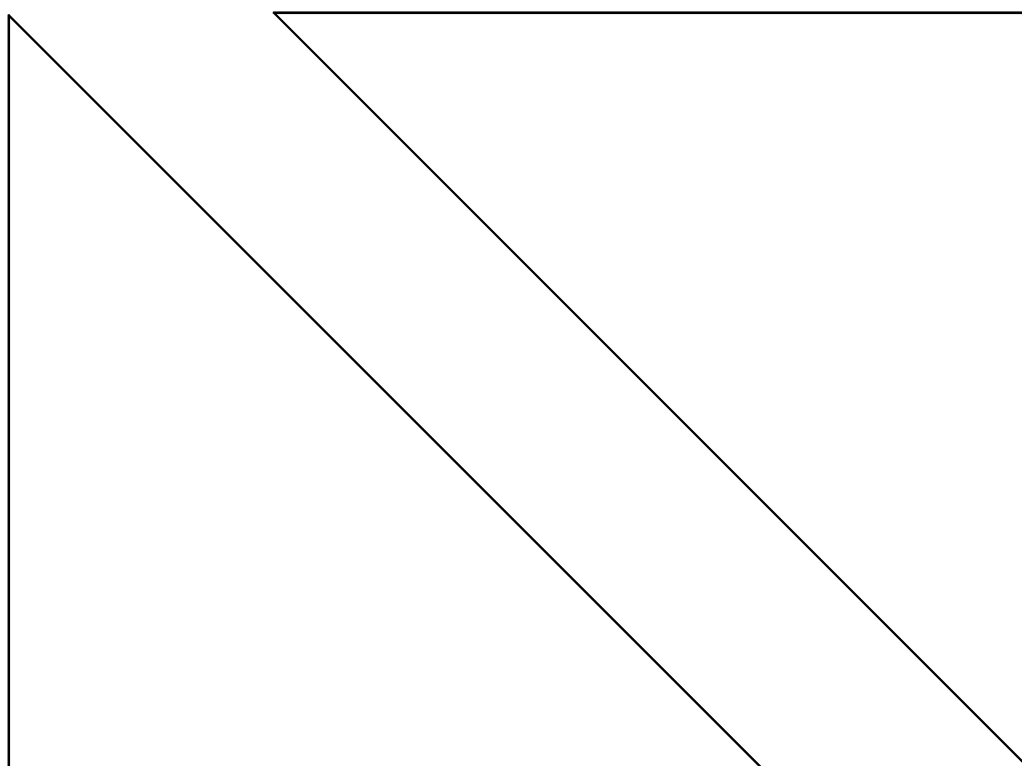
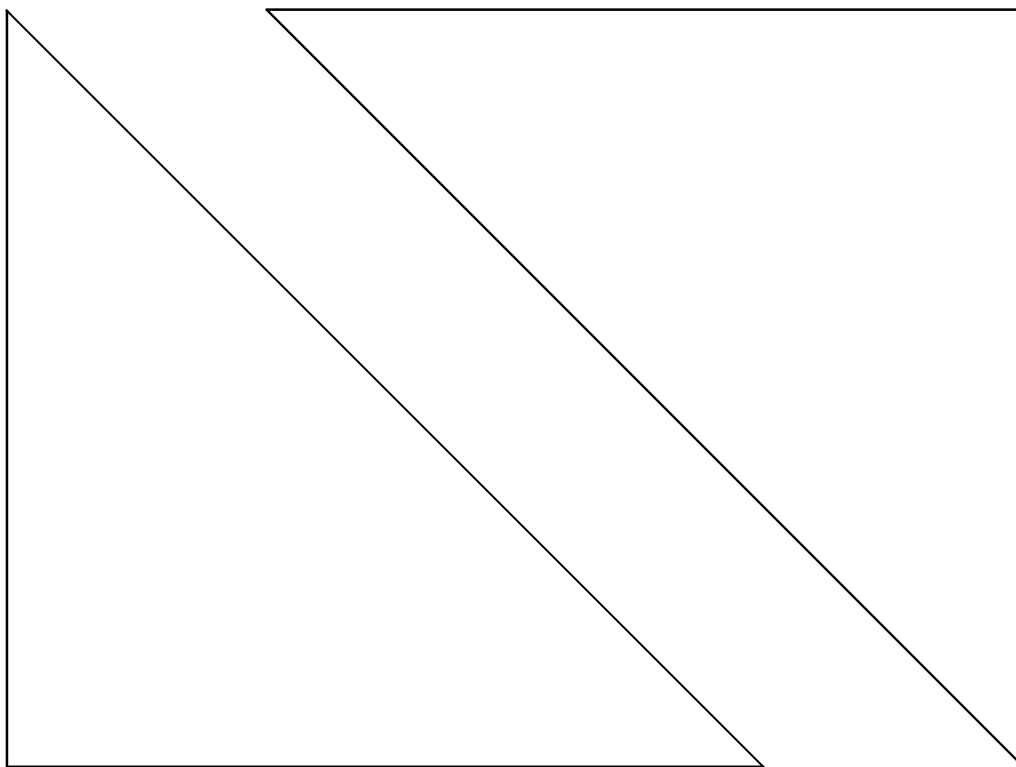
Mauve Q 63



Blue Q 64

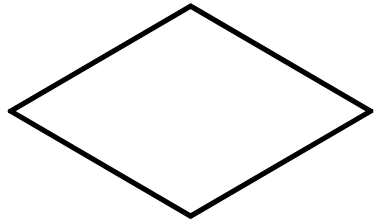
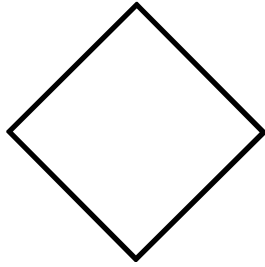
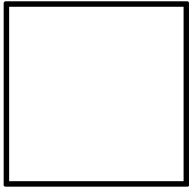


Pink Q 66 (Only one pink triangle needed per kit)



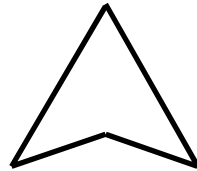
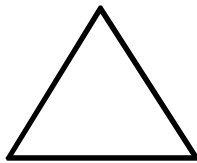
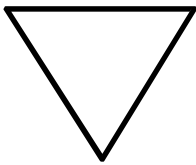
Mauve Q 66, 68, 69

1



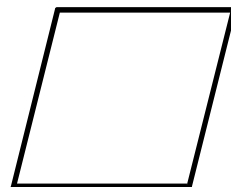
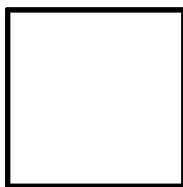
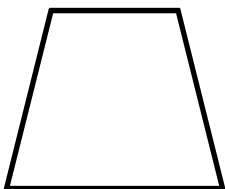
X

2

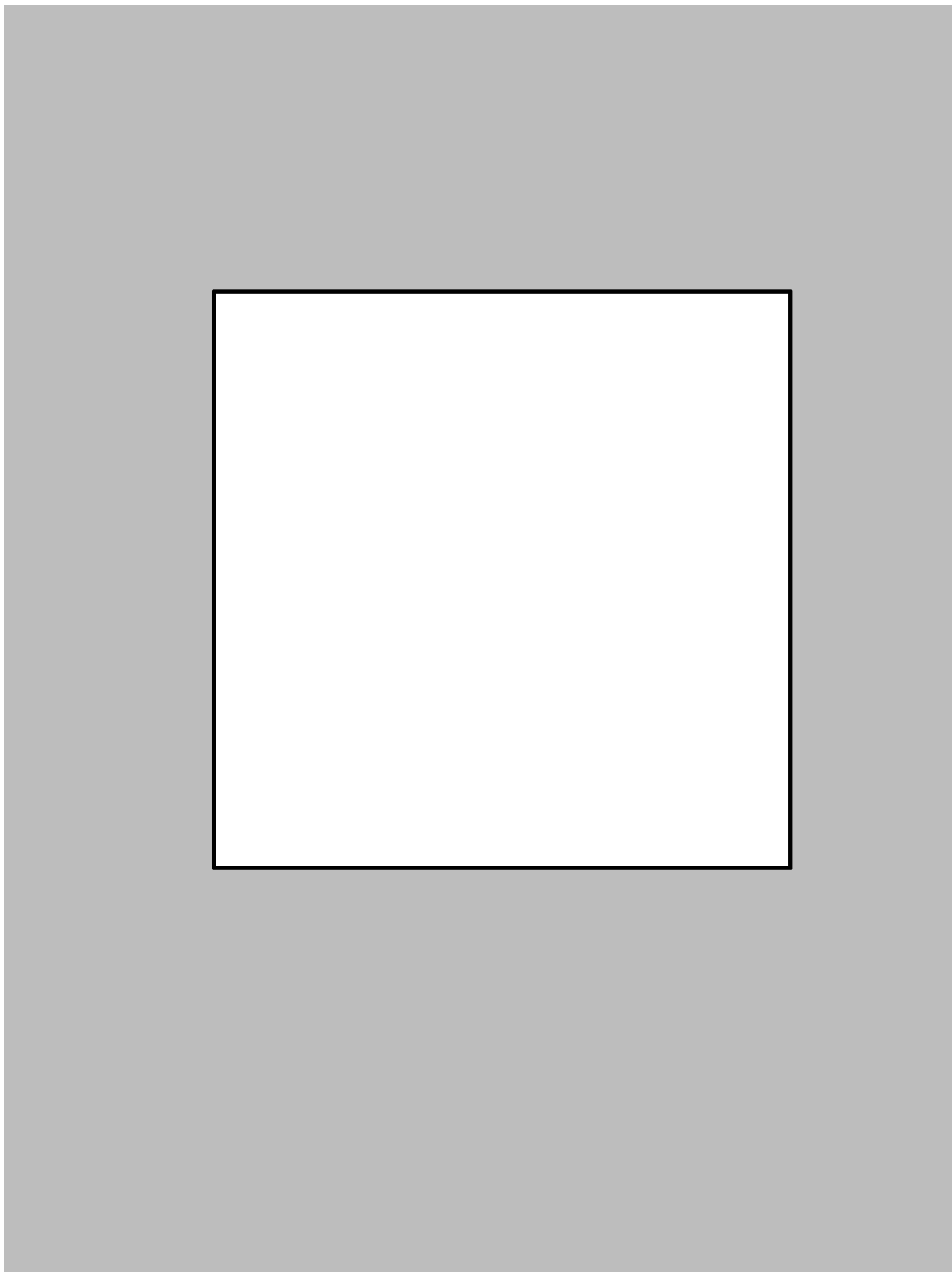


X

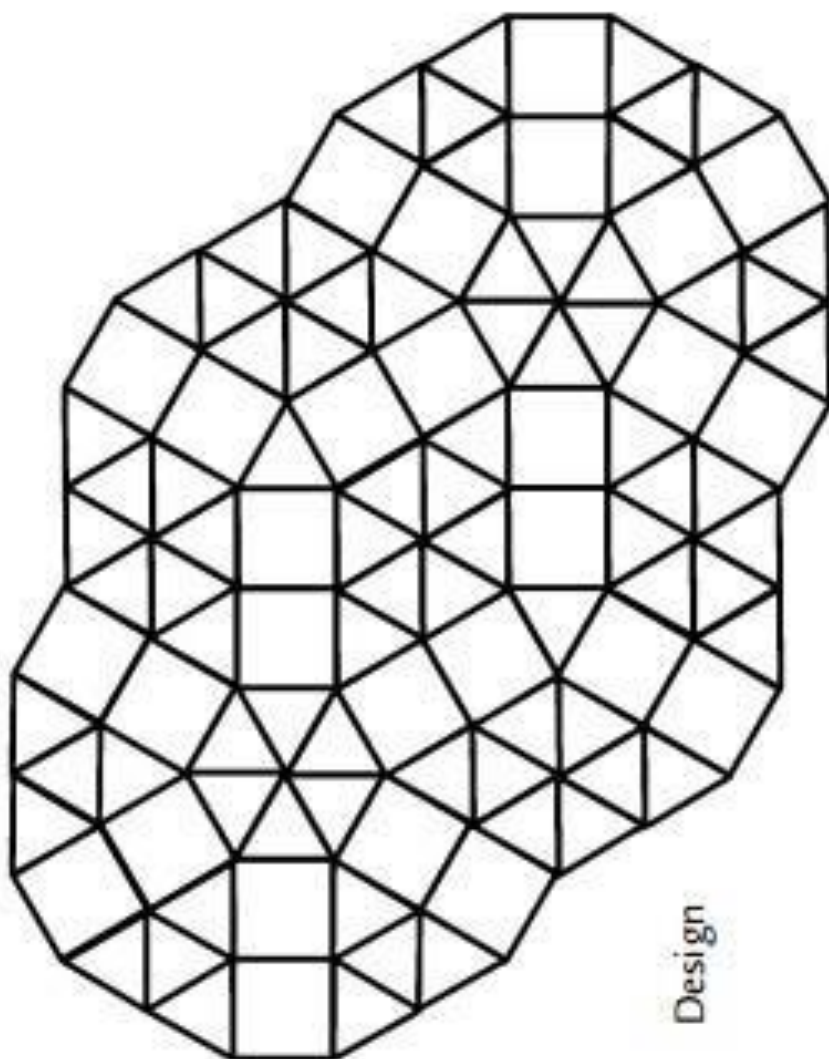
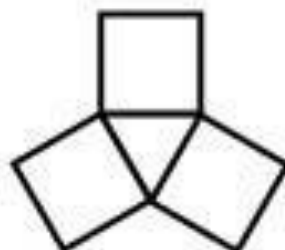
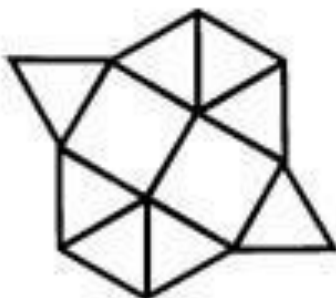
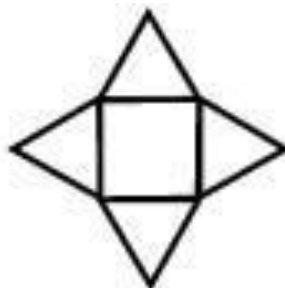
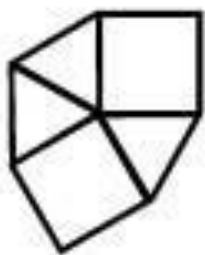
3



Dark Green Q 70



White. Q 71



Design